

<210> 10091

<211> 509

<212> DNA

<213> Homo sapiens

<400> 10091

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agttaagaaa cagaacacct tttgtttaag caactaaatt aacacgtgat ggttcttggc   60
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tggacgtagt gtaatggcaa ctctcccac taaaaggccc cgtcaggctg ggcacagcgg  180
ctcatgcttc taatcccaac actttgggag gccaaagacag gaggatgctt gaccccagga  240
gttcaagacc agtcttggca atgtagcaag accccaactc tataattttt tttttttttt  300
tgagacggag tctcgtctg tctcccaggc tggagtgcag tgggtgcat ctcggctcac  360
tgcaagctcc acctcccagg ttcacaccat tctcctgcct cagcctcctg agtagttggg  420
accacaggcg cccaccacca cgcccggnta cttttttgga tttttaagta nagacagggg  480
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<210> 10092

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10092

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tcggaagcaa atctcgggat ttcgaaagcc tggctttggt tttctctgtg tgaaaaaata  180
ttccagattg taacatgccg tcgcttcaag gagtttttag cagcttcctt gatacatgaa  240
aatcttggtc tctgaaagct tcagggtgtg tcttcccaga attggtttca ctatgtgtga  300
tgccctcgct ttcttccttt gggcttggtt gttccttcat cattaggtgt gagatgtgtt  360
atttatagat gcttcgactc ctgggatggc tctttgaaca cagccctgcc atgtcaatgc  420
    
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acagaaagcc ccgatttggt tctgaccgt cttgataatc ttaccngca cagctttcct 480
anggttaatt tgcaattaat taatttagng acaggnctcc tgggttgcca acctggctg 539

<210> 10093

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10093

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accatcacct gcttgaaatg gctgcaaatt taccatgttc tggcattaaa gtgatttcaa 180
ctctttggac aaattggtgt aacagtaagc accgagattt caaattccca gatgagaaaa 240
aaaaaattaa tcaggaggaa atttatttag taaaaattca aagctaaaga aatgtgagaa 300
ggaagccaaa cccaaaaaac tgtaaaaaat acaatcttct ctccagaatt aggttaaaaa 360
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agggtcttat acacaaatac atgtagcttg atttgcagat cagcctctgg gatccgacct 480
tacctggccc caattagaag tcaaaaacca aaatttaggt aggnaggcag acctntatta 540
aactcagnat cccgttnn 557

<210> 10094

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10094

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gggcttgctc tcggcggttg ccatggacca gcagcacctc cttgatccgg tcctgctgga 180

agcccatgtc actgaactgc tcccagaggc gcaggaactc ccctgcctga ggaagaggag 240
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 agtgcctact gcacctagtc ccaaaaagct gtggctaccc ccaggccacg tgagcctgat 360
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 cctctgccaa ggaaagaagg cccancctg gccatgggct ctgcctgact cttcttccac 480
 ttcttccact nactggcaac tttntgctgg ggcaagaagg ggggcaaac cgncaccttg 540
 acctggagga caaaannt 558

<210> 10095

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10095

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 cctcagtagg ggattcttaa agaagacaca tatgcagtga gtggcttgga ttttgaaaga 180
 ggtgtgtgtg aaggccaggg gtggtggccc actcccctcc tgngtgccca ctttcattca 240
 naaccatccc atttatgtgt cttttctacc agtatctcta caaatcatct ttccatttag 300
 cagcctttcc taggggggtca catagccacc cctnacataa agaatgaggc tnggggtcac 360
 agacaagaca caacaatgta gcccacatcc cgataaaaaa gtgttgggca agcacangcc 420
 ttacactgga atcagaacaa ngggggaagg attcaactta ctctgggaac agaccgacnn 480
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 ggnaaaaaaa ttacttgg 558

<210> 10096

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10096

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agtagagacg gggtttcacc atgttggtca gggctggcct cgaaccctg acctcagatg   60
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tttttttttt tttttttttt taacagacca aagcgtaag agtccccaaa ggagggaagc  180
caccctgcaa tggaatggca gaaccaggat gggatgaacct gaagtctcag gtgtcaagac  240
atcggcacac agacagcttg gtctctccta ccgacaagca catntgtggc cctgctgcac  300
atatgggcan aggggtggctg gcaccgtcct gccttcggca tgttccaaca tncccacagg  360
accctatacc tggaagcccc tacatcattt actgggtttt gtgacaanat ggagacccaa  420
tagagtttcc taagaggagg aaagagtcca cagaacccca cctnaattc agggncnttt  480
ggaccggtcc taacttgggg cattgccagg ccaggggctg nacccttttt tcccanagt  540
cctggcacia gccaaaaccg t                                           561

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<210> 10097

<211> 473

<212> DNA

<213> Homo sapiens

<400> 10097

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caaaacaagt gttatttatt ataaaatcag nggcttctga ttagaagact tttttttttt   60
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tccaccagca gtttgnngga cacatcacgt ttctgccaaag tgctacagct gaagcccata  180
ttcatagaag caccctgaca gcccttctcc agcaacttcc agaaaacaga acctgagcac  240
tcaaagctgc atcagcccat gtggccttgc tcccaanaa gcatntggcn atttgggcat  300
gggggaacca aaagtgggca gggaattctc cttggctcct taaaagggca tgggagccca  360
gggaaaccgt tcggccccag tgcagccnta ttgggaagga nggatnggna aaaggctgct  420
nggctttttc cttcctnacc ctatggnaag ggggactggc cttttggttc ctt           473

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<210> 10098

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10098

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ganacagggt ttcactcttg tcacccaggc tggagtgcag nggcacgac ttggcttact   60
ggaacctccg ccttccaggt tcaagcgatt ctctgcctc agcctcccga gcagctggca  120
ttacaggcgc ctgccaccac gccagctaa tttttgtatt tttagtanan acagggtttc  180
accatattgg ccaggctagt ctcaaaactcc tgacctcaag ttatccgccc accttggcct  240
cccaaagtgc tgggatcaca ggcgtgatcc atngngcccc ggccacgtct cttcctttca  300
atgtaggatg tcactcatga gcatcaattc ttcactgcat taaggaatgt gtgattttag  360
aaagtgcctg agtatagaat tgtgagggtg tggcctatgt cttangcctt ggagaaactc  420
anctagcana gaanaatgga naaagngggc ataacgttat gattgctcaa aactaaatgc  480
ngataatatg accttgaacc tgggaagcnc aaaagcc                               517

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<210> 10099

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10099

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ataacagaaa aatattttatg taatgatggc agctgcaaat tgattgggat gttaataaat   60
aaaaaggaac aagtatcaac tagctgcaaa tgaggaagaa accaacctac ctgaaaacta  120
caaccaaatt ctcatggcta ataagtgatg gcagtgagac catggcccta atggaagtta  180
gggcagcctc acccactgaa atgttgttta gttggagctg atagcctcag tgttagataa  240
aaattgtgca acacctgagc aacaaatitt tttttttttt ttttggaaat tggcatgtat  300
tctgcaaaga cttgtttttag gccagtttta ccccatctgc taaacgcaat gcatagtctg  360
tatcaaccag aagaacccat ctctaaaaac atcaatgttg atagtcaaag accactgtgt  420
tagaacccaa aatcagggtt tggatgatta cctacattag acagagcaat ggtggcacan  480

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gcttgagcat gacaatggct catatggttg acncaaaagt aaccaattct nggtgcnttc 540
aggaggaatg cctgct 556

<210> 10100

<211> 536

<212> DNA

<213> Homo sapiens

<400> 10100

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agcaaggtat accttttaca gacaatagtg gctctgagcc aaacacgagc tcatgtgagt 120
tgttacctaa tgggcctcat gtggtgtggt tacataacga gcaaggttgt gtgcttgcac 180
tccaaacca ctgagtcatt ctgcaccaga aggctgcctc agcctactcc tgactaaagc 240
acagccattt cccttacact acacccccta ggctgagggc gtcctccagg cagggacaca 300
tgcctatatg gcggagccct gagtccataa cccacaacaa caatacagag agcaacagct 360
cactactagg atctcagcta tgatacttat gactattagg gcccaatgta cgccagaacc 420
tagggatgct caccatctnt gcaaggggtt gacagtgang cttttcagtc accttaattct 480
nctggaanac ccttttgaag gctggtggta tggctctgctg aatgncangg ataang 536

<210> 10101

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10101

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ntaaagcagg aacagcaaac agatttttcc atcacatgac accctcagct gattggccat 120
aactgccttg actgctgtgt ggacaaagat tccaaggatg tactttggct ccatgggaag 180
gactactgca atttatttagc ggtatctgta aacatgggga ataaatctga aacctcacta 240

gccatacgag aagccacagg caccaanact ggcgntcca ctgccaaagc cagcactggt 300
 gctcgggtcca ccaccaaagc cagcaccagt gtttgggtcca ccgccgaagc cagntcctgt 360
 gctcgggtcca ccgctgaagc cactggtgct tgggtccactg caaaagccaa caccagtgt 420
 tgggtccaccg ttgaagccaa caatagaact ggggccacta ctgaaccccg tgctggngct 480
 gggttcncag taaagccagt gcttgggggtt ggaacctgtg cnaagccaat ggtgggccta 540
 aacctttggg n 551

<210> 10102

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10102

gaaacaaac caaaaacttt atttacaata gtaaatttta acttgctttt atatgtcata 60
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 ccctagttat accataaaac ttataaaca ttgcttttagc tttgatgttt gggtcacgttt 180
 gttgtgcana agtcacgttt cagggttagt tcaccgccag acacgggtcac atcaccattg 240
 gctgnggatt tccaagaagc aaaggagcca atctcagcaa agctcgcact ggcatittta 300
 gctgcttaaa ttgaagagc agttcagcaa agcttgnngct cccttctagt cctatagggtg 360
 gcaggtgctg tggagctggc acagagtggg agacgaggaa caggccagca tgctcagctg 420
 ngattcctcc aanggctgnc cgctgangta ngcgtgcaca cacattttac ccccgacttg 480
 gaccttggt ccagggatta tcaatggggc nctttacaac agggngggaa ttccagttcn 540
 taaaaac 547

<210> 10103

<211> 462

<212> DNA

<213> Homo sapiens

<400> 10103

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tggtcacc cctgtaatcct aacacttcag gaggctgagg caggcggatc atgaggtaca 120
cgcccaggga agagaaggga cttgtccaaa tgtcactcaa gtacttggtc cataacatta 180
agctttgtaa ttcaccaggt taaatgtgac atcactgttc catccaccct accaacactc 240
caaagaaact caacttcctg ttccctcttg aggaagtaaa attaccaga taaaaagggg 300
aacgaggtgg tggggggggg ctggccgtcg aggccggggg ccaccaaacg aggtancagt 360
ggagggangg ctgggggggac canaacgcaa tgtcagngtg tcaggctcat ccttggaac 420
aggcannccg ggataccatg gtgacaggca agggancggn cc 462
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<210> 10104

<211> 531

<212> DNA

<213> Homo sapiens

<400> 10104

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ccacctccca ggttcaaaca attgtcctgc ctcagcctcc cgagtagctg ggattacaga 120
tgcctgccac cagccccagc taatttttgt attttttagaa gagacggggt ttcaccatgt 180
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tcttggtctc aggtgatcct cccatctcag cctcccgagt agctaggatt acgggcatgc 420
gccaacatcc ctggctagtt tttaaacaat tttttgtana aacangggct tgctatgtgg 480
ccaagctggn cttgnacttc tggactnaag ccacctgaa ttingcctnc c 531
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<210> 10105

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10105

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cagtgtcttc agtgaagttt actgtatatt ataaacagtc atagaattca aagacaatca 60
tataaccaac tcttttggat ggcttaggat gtgccaggta ctgtgctaag gacaagagat 120
ataaccagat acaaaccagt ccccatcctc aatcattact tattcactca acaaataatt 180
ttgagtactt accctgcacc aggcactagg gatataacag ataaaaatta agtctctcgc 240
ttcatgaagc tttcattctg atagaggagg acaggcaata agccaaataa atggttttatt 300
ccaccacccc ttcaagtctt cactcaaatt ttcctttttc aatgagacta tataaccaac 360
gtatttataaa tttcaaccac catcctgcat tcaactgctt tcactcttgc aagnagtta 420
atatgtgtta atttgactga ccacaaggng cccagatact tggncaaaca ttatgcctgg 480
gngngctgtg aancatggnt ttggatgaga ttaacatttg gaatcagtc cctggataaa 540
gcttattttt ttttcccagg ggna 564
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<210> 10106

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10106

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caacctccgc ctcacgggtt caaggattct tctgcctcag cctcctgagt agctgggact 120
acagggtcgc accaccacac ccagctaatt ttttttgtat ttttagtaga gacagggttt 180
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ccaaagtgtt gggattacag gcatgagcca ccacaccgg caatttttgt attttttgta 300
gagacggggg tcttgctatg ttgtccgggc tggcttataa ctctgacct cgagcagtc 360
tcccaccttg gcctcccaaa gtgctgggat tatagacatg aggacaggag cctggctctg 420
tctccctctt taatgagtaa attttacaaa ttgccaacct accactagtt agtacacagt 480
gactgtagtt gtcanaagct taaacgtgta tctgggcata cgggttcttc tgnnttctgg 540
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ggagcacttt cctn

554

<210> 10107

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10107

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 ctttgttccc tgttgtctcc aaagtgtcta gaacagagct ttgggcctgg gtggccctca 420
 caaacagtaa cngaataaat gaacncagac aagganaaan ggctntgaac caaacttaca 480
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<210> 10108

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10108

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 gcacgccacc acaccagct aatttttgca tttttagtag agatgggatt tcaccataat 180
 ggccaggctg gtctcgaact cctgacctca agtgatccac ctgcctcggc ctcccaaagt 240
 gctgggatta caggcatgag ccactgcact cggcctccaa cattccacta ttccagataa 300

tgagaggctt tgagtctaca gggcattctg gggttacttc tatctctttg agcctatgac 360
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 aactttccat ggccctcaag tgtgtgggct tctgntgcaa ggnctcatgt cttaaagtgag 480
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<210> 10109

<211> 439

<212> DNA

<213> Homo sapiens

<400> 10109

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 caggtgctgg tcgtaggctg gatgtgttga atttctccat gatgggggtcc actgcacca 180
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 cagagtctcc tcgggaaact taccaagtct gatggtaaca ggggcatggg accatcctaa 300
 ctgggaagac aaaaaggctg agaccttccc agagtcacct tgggagtgag catgggaaca 360
 tggctgaaca ccaagacaga gccaggctgg actgcagtag tgcaacctng gccactgna 420
 cctncgcctn ccgnttnan 439

<210> 10110

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10110

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 agtagtggtc aaacttttat ttttacagct aaattcctca agcagatggg ctctgtgtg 180

gaatcacaat gatgctgggt aagattcact gaatgcttgc tatatatcag gctctgtttg 240
gagcccagca tatatatata tataatctca gttaatccca cagtacctga tgaggagggt 300
actgctgttt gtccattta tttttattt atttatttta ttttattttt ttgagatgg 360
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ccgcctccca ggttcaagca attctcctgc ctcagccttc caagtagctg ggattacagg 480
cacgcaccac catgcccggt taatttggtg tcttttttan tagaaaatgg ggttctccat 540
ggttggtc 548

<210> 10111

<211> 546

<212> DNA

<213> Homo sapiens

<400> 10111

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ctctataacc catccagccc aagactgttc tagtggtgaa accaagagta gacaggcttt 120
cctacctcag tgacctcaaa acacaaggac atctccatag ggcatcaaca tgcattctgtc 180
atccaagaat ctaagaactt cctgatcctt ccacattttc tatcaataat attgccttct 240
gaggttatgg attccagggtc ttctatgaaa taggtaaagc ttcctttcgc gttccaagaa 300
atatagtttg cgaagggaac tggaaaacgt gactctaggc ctcagccact tcctctgtta 360
ccctgtgcaa gttgtagaac aatccacgtt ctcacagctc cccttcttca agttgtggag 420
ttcttcaagg tggacagatc acacctcagg aagtcattcc ttggnagccc actagaatta 480
tcataaangc agtccggctt ggtagttttc ttgnnccag catcactgng ccaccacnta 540
agtctn 546

<210> 10112

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10112

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tagggagact ggatgaggat ttatataact caggtgtatg accaagtctc ccttgtctga 180
caggccttat tatgaatgag tgtggtagt agtaagctct aagacagccc ccagggatcc 240
cagtctcctg gtgctcacac ccttgagagt tcctctgctc ctgagtgtgg atgaaacctg 300
tgacttcctt ctaaccatca gaatccagca aagaccgagg gatgtcactt ccatgattac 360
actgcacaag gttgtaactg ctgtcttggt agactctcca ctgccttctt ggtttacatg 420
ctttgatgaa ggaagtggcc atgttganga ngttcacgtg gaaacaaact gaaggtggnc 480
ttcacagatg gacagtncca actaagggcc tcaatccatc ncttggangg gaaccaaata 540
ccacaacct 549
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<210> 10113

<211> 466

<212> DNA

<213> Homo sapiens

<400> 10113

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agatcgaatt tcactctgtg acccaggctg gaatgcactg gcacgaattc agctccctgc 60
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acaggtgtgt cccaccatgc ctggctaatag attttttttt ttttttgcct agacacaggg 180
tctcaacatg ttgcccaggc tggctctgaa ctctctgggt caagcgatcc tcccacctca 240
gcctcccaaa gtgctgttat aagcatgtgc caccaccacac tctggccttg atactctttt 300
ggtaaaaaat atactagtat tagcattctg tggccaggaa tgggtggctca catccatctg 360
taatcccagc attttgggac gccaaaggccg gaggattgct tgagcccagg agtttgagac 420
cagtttggag aatatggcac actgtttctn cnaaaantnn attntn 466
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<210> 10114

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10114

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catctttgaa gtccttttatt cccagcagtt cacatcagtt actcattgag ctgggggttcg   60
tcatattaac caagaattca ttcattcttc ttttgatatt gtaatcttgt cctcatctcc   120
acaactgagt tggggcctga ggggtttaag agttctcact ccatcacagg aggcaagggg   180
tacccttggtg aaccagactt caactcctgg aagtcttggt cagttcatag gcaaatatct   240
ttgcaagttt agtatgagac agcccaacgg ttaaataaat aagacacagt gccatgggtc   300
taggcatttg gagagggaaa aggcacatta cacagattcc cctggagaaa atacaggcca   360
ttctcatctt ctcaacatgc attttccac tcttcagcga cttttaatct tatcccctgg   420
tctatgagaa accataaccc acgtgctact gaatacattt ttattttccc ttcattgacat   480
anacttgggt tccagtatat ttaatttcc tcctatgnc tacaagacat ncaantttgg   540
tcagggc                                         547

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<210> 10115

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10115

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agagaaagtc tggaggttta ctcaacaacg ttcacaatca caattgtaca tggtaaataca   60
gtctttcaca aaggcttatt tttccaggca ggaggagagg ctggtggtct tgagcttttg   120
gcctggaatt ccagtctgaa ttttcaaata ttccctgcct ccaaccctt tgggatccta   180
gtcttcaagc caataacaga gcaggagtct gaccctgttc tgttgcttg catggctgaa   240
tcaaagccat tctggaagca gatgttaagg tgaacttgct acttggtatg taggtccgac   300
tcccatccca gaggtggcag tgggccttgg ctcaagatca agtttgaact aaaatattac   360
ttggattttt cacaaagagt gtccgttgaa agcaataagg aattccagaa cagaactgca   420

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cttcttgtcc ctctctcaca cttacaaagc ttcagaaaac attaaaaatg cattacctct 480
 aggaattcna aagatcaccc aactgtncaa actagatatc gctgaagcag aaactctgan 540
 tcctcagtac tac 553

<210> 10116

<211> 578

<212> DNA

<213> Homo sapiens

<400> 10116

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 aaggatatac tttaaaattt tacagtaatc aatatcataa cagcagctaa cagtacactg 120
 ggtgaggatg gtacttaaat aattatttat tgagttgctt acagaagaga ggtctcccaa 180
 gtcccaaate aacttcacaa atattttatt agtacttaca atatacaaaa acctttttct 240
 aagctctgcc ctacagatta ataaaaagga gcttaaaatg aagggaagga gagagaaaaa 300
 gacaaaagat taatacacaa gttatggtac ttctaagcag gaaagaagct gcttaacttg 360
 gttgggatgg gagaggggtg gtttcaagcc agaagctgaa cagcatgttg agatgctaaa 420
 ataaggaaga tattccagaa agaggacagg cacagaatct ccacgtgaaa tttcctgtag 480
 actagtaaga aaatcaagtg agatcaacag gagaaagatn taagaagaaa actccanggc 540
 caggcacacg gntcatgcct gnaatccagc ctttngga 578

<210> 10117

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10117

ccattaatct ttctggagaa cctagatcct aagtcgaaaa acctactgaa gtatatcaca 60
 acctgtaagt aggtacagat gtctgaggcc tattttagaac aacagtgtta gaaaggcgct 120

tccttacctg ttagacaaag gcgacttccg gccaaaccca attgccccca ggatcccaga 180
 gctgagtctc tcctcagcca cgaggttctg cctgctctga accaagagca gaattcgaat 240
 gacagattct gtcaggacgg agtcattctg ctctgtctga atgagggaga gctgaaggac 300
 ttggtgccac cacaaaaaca gctttgcctc ttcctccacg gagcttgggt acacctgttc 360
 cagccacttg ctttaagatga gcagcacttt catttcattc cttaaagtct gttcgctgtt 420
 taaacactga agcaagtaga cgtaaagagt caagtaactg cccaaggtga ggcactcctg 480
 caggaactct tccatggtga gctcgggaac ctgaagggat ccagaatggg tccccatcct 540
 gaatctgatg gagagggcnt 560

<210> 10118

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10118

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 caagctccac ctcccgggtt ctcgccattc tcctgcctca gcctcctgag tagctgggac 120
 tacaggctcc tgccaccacg cccggctaatt tttttgtgtt tttagtagag atagggtttc 180
 accatgttag ccaggatggt ctcaatctcc tgacctcgtg atcggccac ctcggcctcc 240
 caaagtgtg ggattacagg cgtgagccac cgtgcacggc caattatatt atttttcaaa 300
 cctaagagga gtcaccaata tgaaagtatt gtcagcaagt tttctcataa aatgagaaat 360
 cttgtaaatt aaacaaatca caaattggcc tgctttgcac atccagagtt tcatgacctc 420
 tagctaataa agatgcccatt gtttgctcag gtcacatgt gttgggctcc tggctgggca 480
 tttcangcac atccatgcta tcatcatccc tattcttcaa gtgaaggata cttggggctc 540
 anaanagggt cggngacttg gctaangnc 569

<210> 10119

<211> 437

<212> DNA

<213> Homo sapiens

<400> 10119

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gaaattttaa agctgggtgt ccagggcaga catcacatgt tggcaggttc tgtgatgccc 60
cctgagccat aaaaccagca aattttttat tagtgatttt caaaagggga gggagtgccc 120
aaatagggtta tgggtcacag agatcccatg cttcacaagg taataagatt tcacagggtta 180
aatggaggca gggcgagatc acaggaccac aggactgggg tgaaattaaa attgctaata 240
aagtttcggg catgcattgn cattgataac atcttatcag gagacagggt ttgagagcan 300
acaactgggtc tgacccaaaat ttattaggca ggaatttcct cgtcctaata agcctggggag 360
cactctgaga aactgggggt tatttcatcc ccacagntgn gaccataaaa gacagntgcc 420
ctgaancanc cntttna 437

```

<210> 10120

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10120

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cattttactg catttngctt tattgcgctc tgcanatagt acatttttta caaagngatt 60
tgnggaaacc ctgcagcgag caagtctatt agcacatttt tccaatagta tngngctcact 120
tcatgtctct gcgtcacatt ctggtaattc ttacaatatt tcaaactttt tcattatcat 180
catatctgtt atgatgatct gatcagngat ctttgacatt actattgtaa tagttttgga 240
caccacaaac catgcccata taagacagca aacttaatta ataaatgttg tacttgttct 300
aaccgtcca tcaacaggcc atttccctgn ctctctccct ctcttcaggc ctccattcc 360
ctaagacaca atattgaaat taggccaatt aataaccttt tgatagcctc taagtgttca 420
actgaaagag ttacaggatc tcacacttta aagcaaaagc tagaaacgat taaagctttg 480
agaaaaaggc atgccaaaaa tggagatagg ccaaaagngg agctctttgg accaattagc 540
caagtgggaa aagg 554

```

<210> 10121

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10121

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gaggactgca aggcacaact gtgcagacag gcagagaagc ctcagcacct gtgggaaagg   60
aacgaatcca tttctgtctg ctcatattccc acccatgagt gtggacagcc ttcctgtccc  120
tggagtgtcc aggcctgcct ggactgagtc tgteccctctc cctccccttg caaaggctga  180
gagtgttctg gatgtggctc tgaaagaatg ccaaggtcta tcaggtgggt ccaccacagc  240
cctagcccag gatgtccctc acctgtgtcc attccccag caaagtcctc atcataggag  300
tcatcagtgg agtcctcgcc atccaccgaa gaccatgctc ggagcttggc ttccgcgatg  360
gcaaactgct cagccactcc tgtcgcaggg acagaatgca taagcagaga aggtgagtta  420
agtctagggc tcagcttgaa gacaggagag aggagaaaca gggtatggga agactccaac  480
ccccatgtca nacccgagga gataaagaaa gcaccctggc cgggtgtggtg gcttaagcct  540
ggaancccag cactttingga ag                                         562
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<210> 10122

<211> 386

<212> DNA

<213> Homo sapiens

<400> 10122

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atcattttat gaactttaac catagcaaat gggtttttac ggnagtcata aaatcaacat   60
taccacatat acaaaggaca agaccccagt ttggcataca aaaataccat atattaaaat  120
tgggttcatt ggaaaactca ggactggcta aaacaccatc tataacagag agagcaagca  180
agaatgcttt taagacattc agatttataa acagcagctt gatatcccct ttacgaagtc  240
aatatttggc aacatttggga caatattttc tacacagccc agcagctcat ttatctgnag  300
ggctatttgg cccttaaaaa aaaaaaaaaa aaaaaaaaaa aagcncctaa aataaataat  360
```

ccnnataatt gnaaatgaaa cncatn

386

<210> 10123

<211> 546

<212> DNA

<213> Homo sapiens

<400> 10123

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gggatggagt cttgctgttg cccaggctgg agtgcagtgg cacaatctcc gcttactgca 60
acctccacct cccaggttca agcagttctc ctgcctcaga ctcccaagta cctgggatta 120
cagggtgttg ccaccacact cagctaattg tttttttatt tatttttgag atggagtgtc 180
gctctcttgc ccaggctgga gtgcagtggc gccatctcgg ctgactgcaa gctctgcctc 240
ctgggttcat gccattctcc tgcctcagcc tcctgagtag ctgggactac aggtgcccgc 300
cgccatgccc ggcttttttt attttttttt tttttttttt tgtagttttg gtaganacgg 360
ggtttcaccg tgtagcccg gatggtcttg atctcctgac ctcatgacct catgacctgt 420
ccgcctcggc ctcccaaagt gctaggatta caggcatgag ccactgtgcc cggcttggat 480
tggaatttag caganacggg gtttcactat gttggccaag ctggctcaaa ctggtgactc 540
aaagaa 546
    
```

<210> 10124

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10124

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gtaaatccaa actacaccta gaaaactgct ttctgaaaca ttccttagtc tgttggtcac 60
ctaataatcc tcaactcaacc ttatcaggag gtaaggattc tgtctgaact caggatccat 120
ttggatcggt ggcctaccta tgggcaatga gaggaatcat attaactgtc actgtccatc 180
ctctgagtct ttgtagtttg tagtaaaata catactgtcc catataaaaa atgagaattg 240
    
```

tgttacccta aatgtcagat aatttgggtgt ttcccagctc tccagctcta aagaatctct 300
gctgggtatc cctttatgtc tggaaggaga ctgtcagctt ctggtatctg agacctgtgt 360
gccctataac atctagttat ggctatcggt cttactagt ttagggatac ctttctgtag 420
gaattaagag taaacacaga tcttcagagg caagagtttt agaacttatt gaagactttt 480
ggcatatgga aacttcattc aacaaagagt gccccttaaa aaaaatctct actggcattg 540
ggtatgggga tctgcc 556

<210> 10125

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10125

gagactgagt ctactctgt caccagggt ggagtgcagt agtgcaatct tggtttacag 60
aaacttccgc ctctgagtt caagcaattt tctgtcgca gcctcctgag tagttgggat 120
tacaggcacc tgccaccatg cccggctaatt ttttgtatct ttagganaga tagggtttcg 180
ccatgttggc caggctggtc ttgaattcct gacctcaggt gatccactca cctcggcctc 240
ccaaagtgct gggattatag gtgtgagcca ccttggtccg cccaaactga cattttatag 300
ggatttttca tccttaaagn gatctactca gctcatttct tccaaatctg nattttacag 360
cacactttaa actggtgccg cagagttttt gagtgggtgat ggcagctgcc ctctatgtct 420
gtggtgtgcc ggccctcat gctggggaaa gaggggacgt gaccctaccc ttacagcagg 480
ctggcctcct tctntncca aactggcggc cctgntctgg gctaactagc ccaatcctag 540
cctn 544

<210> 10126

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10126

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gagatggagt ttcactcttg ttgcccaggc tggagtgcaa tggcacgatt tggctcact   60
gcaacctctg cctccccggt tcaagcgatt ctctgcctc agcctcccga gtagctggaa  120
ttacaggcgt ccaccacat gccagctaa tttttgtat ttctagtaga gatgggggtc  180
caccatattg gccaggctgg tctcaaactc ctgacctcag gtgatccact cgccttggcc  240
tcccaaagtg ctgggattac aggcgtgagc caccgcccct ggccaaggcc ctactttcta  300
aaagaggaaa actgagacca aggaagggtg atgagcacat ctgtttctcc actcaaggcc  360
agcggtgaga aacggcagag ccgggcaccg gtaccttggc ttcaggcaag tcacccagca  420
cctctgggct tcatactccg ttggaaaat gcggatgaca agaacatccc ccatccagcg  480
gtcccactct ggngaattta ttctaaaagg gaaaatccaa caggntttgg tctggggatg  540
agtcacgan gcttnatta                                         559

```

<210> 10127

<211> 572

<212> DNA

<213> Homo sapiens

<400> 10127

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catgaagacc agtttatattt acatgcttgc tttcacattc tttactggga atttaaggcc   60
ttttttcagc ctttaacttgt ataccaacct caaggatttt gtttgataca gaaaaggata  120
gggctgggcc cttctgccaa ggactgataa cctgcctgcc aaaaggaaga gggaatgaaa  180
gccttttgtc cttctaggcc ccttacagta cctcaaaatc taaaggcctt aaaggggaaa  240
aaaaccgtat ctgtttcttc tccttatctc ctacccttct ctttaagcat attgaagatg  300
gacttttttc caaatgttta ttgtaggaa gaggtgatga gcgcaggcca gcagctgaga  360
acttacagct ttgatgcacc aggaactgta ttcaagctga gggcaaaagc ctctaggga  420
gggagccagg tccaccaagg ccagagacag acagggcgag actgtggaag gccagggaga  480
tgctgcctgg taaatgctca gctggcctac tgggcaagtc ctctgggggt tctagagctg  540
atnggaanaa ggagtcattt tgatagtccc gn                                         572

```

<210> 10128

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10128

```

gagagtctcg ctctgttgcc caggctggag tgcagtggcg cgatcatggc tcaactgcaac   60
ctccgacccc ggcgttcaag caattctcct gcctcagcct ccctagtagt tgggattaca  120
ggcatgcgct accaagccca gctaattttt gtgttattag tagagagggt gtttcaccat  180
gttggccagg ttggtctcga attcctgacc tcaagtgate cgctcgctcg cctctctacc  240
ttccaaaatt ctggaattac aggtgtgagc caccacgccc ggccagggat gtggttttat  300
aaactatgaa ctaactctcc atgctatgtt gttcttggtta attcatttct ctcatagata  360
attaanaaca aaaaacaaga aaacaaaatc caacaagcag gcataagatt atatgggagc  420
tttattaact aaatgcccta ggttatattc aaagcagaat caccacgac tcctcaggag  480
actgcancat ggggtaaaaat tgggtgnact ttgaggacat ttggatatc ctaatgaaac  540
atggaccttc ctggggttct taangc                                     566
    
```

<210> 10129

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10129

```

ctgagacaga gtcttgctct gttgcccagg ctggagtgca gtggcacgat ctcggtcac   60
tgcaacctct gcctcccggg tttaagtgat tctcctgcct cagcctgtgg agtagttggg  120
attacaggcg cataccacca tgcccagcta atttttgaat ttttagtaga gatgggggtt  180
catcatgtta gccaggctgg tctcgaactc ctgacctcat gattcacctg cttcggcctc  240
ccaaagtgtt gggattacag gtgtgggcca ccacaccgga ccaaggaaaa cttttaaaaa  300
ataagtttag tgtcacctaa gtctacagtg gttataaagt ccacagtagt ggacagtaat  360
    
```

gtcacaggcc ttcacattca ctcaccatcc actcatttac tcacccagag caaattctag 420
 tcctgtatta caagctccac tcatgggaac cattttttaa atcttttata ccatattttt 480
 cctgngccat ttctatggtt agatactgaa tccatcggtt tcaattgcct gtagtantca 540
 aggacaatca catgcttgac anggttgg 568

<210> 10130

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10130

ggatcataag tatcttcaag accaaaataa ttttctactc ctgagcatgc tcattgggtca 60
 aaggaaggaa ggaatcataa tagcgtaaat aaggctagcg tcttttcana agttggttct 120
 ttgngccagt cttggngcta gacacaccga taggaanaaa actccttcac atccccagga 180
 caccaacatg ggatacgttt gatcatcatt cttaatttgc anaaggagaa ataggctcag 240
 tgagatgaaa tagccactcc agtggcaagg ctgggactgg aagccgggct tgtcctgatt 300
 ccaaattccag tttctttcca ctgccacgga gacggagaga agggacagng gccccanattg 360
 gggatggggt gactggatgt gggcaggcct gcgggggaag agtgccctct gttgagcatc 420
 cgaatgatgg cnccagaaaa gaaaactggg canaatccca gttattaaaa tcccctgagg 480
 ggaacaggtc accccgaccc cttaggcana agangggggg gaanacaagg cccatanatg 540
 aaggccctgg 550

<210> 10131

<211> 448

<212> DNA

<213> Homo sapiens

<400> 10131

ggtttttttt tttttaacaa tntacttatt tccattttta tgaanaatta aaggatncaa 60

tgggttaaag acncatttaa aatactagca agggattaga cagacgaatc aaattttnt 120
 gatatcccaa ataattacaa gagacttcga aaatgtagng naattcaggn tttctttcca 180
 gtttaaaaat ttctatccat tgcctctatc tttggggna ctgccaccaa taaacncagt 240
 ntacagctta naaacctaata tactatcttc aactaggaaa aggnaaacca acatcatttc 300
 tttaaaatgn gaaataaaga atgngatcgn acttaatttt ggctcatggg cccacaatac 360
 tntgaaatgn catgccnaaa tgtaaaagtt caaaaggga cttatcatt tgctataatt 420
 gcnccaaaaa tttagctctg nacnctgg 448

<210> 10132

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10132

acagtacatg aatgttttat tcttcataaa gtgcttaaaa catgaagaag aagctcttta 60
 taaagagcct taactaggaa gacaaacagc aaagcagaac catgcctgca ccctgccccaa 120
 cccacctgca actttcctcc aagtgtggct cggagaagaa acatcaacaa ggaccctggg 180
 cttegattca aaaactcctc tgaagccatc catgccctgg gcattaggga ggcccacaaa 240
 ggtcagggcc agggctggga gtgaataaag cccagaggaa tccccagtag ggggggtgac 300
 tccccctctc tcagaaaaga tacttacttc tctaataccc aatgaccccc aaaagcatga 360
 ctgaaaccct ggggaacagt ggatactttt ctcagatttg atgagtggag ttttaaggtag 420
 gtaaccgtta caggggcttt cctccatgtg tggcgctcct ctgtccatc ctggcagcag 480
 acagacatca cccaganggc acgtgtctgc ctgangcctt tcaaaagcaa gcccacaagg 540
 ccctttcttg aaaaaatggn ggncccaaa 569

<210> 10133

<211> 363

<212> DNA

<213> Homo sapiens

<400> 10133

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cccattgggt gacagcgttt attgaaagga aatcttgctt tatccaggaa ttcactcaca 60
tggaggtagc tgcaaggaga atgtctcttt ctcatgacaa ccaaagcgac caaaccatac 120
cctaaagcag agacncaatg gaataagtca acgggcattg tagaacgacg ctcagaagca 180
ggaaaaacca taaaagatac aggatgattg tctcttcagt attgcatttg gccatgtatg 240
tgtttttaca taaaatatat gttttctttt taagctagct aaagaaaata ctcttgatcg 300
gggttagttc tttaaagcaaa aaacngaana aaangttgga tananaataa aantaagaa 360
ccn. 363

```

<210> 10134

<211> 433

<212> DNA

<213> Homo sapiens

<400> 10134

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gcctcttttg ttaaacagca acagagctct gccactttgg ccaaccaccc tcctttgtcc 60
tcttcctttt ccctcctgcc aagtgtccta ttctcaaaag gtctaaatca ctgccttcca 120
gcttggtggg caacctgctg ggggccccaa gtgaggtggg gaggggctcc ctagctattt 180
cccagtgacc tctatcacat catcgtcttt atcctcatca tcattggagc tgaacccaac 240
ctcggcaacc tcatgagagt caaatggagg cacctgggac cgtaggaggc caccagctgg 300
gtagcctgca tgtggggaca tgtacctgga tagatagaac atgccccnca aaaggttggt 360
ggncaaaaca gggaaaggaa aaggcncaaa catcctgggt tngancagaa ttggctggna 420
aantggaagt gaa 433

```

<210> 10135

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10135

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ctttgtcgtt gttttattta aaatgttatt gtctctgatt agaaaataca gtcattgaggg 60
ctaaaaactg aaatgatgtg aaaaggcatc cattaagcag tgttgcccca ccacctctc 120
catcagtctt gtctcatggg gatggggaaa atgaagacag aacgctttgc cttgctttgc 180
aatccctcct ttgaaggcct tctgtcccag gaagccaatg ttcatttgat gtggaagagg 240
gacctgtgtt taaccagaag ctgtcctccc tcatcccttt cccatggctt acacgcagaa 300
gggagaggag atgaccagag gagaaatcag ggggaagaaa aggcaacagg ggaggcaaag 360
gggaaaggag aggaatgctt aaaatatacn gngaaatttg agtaggatct ctactcaaag 420
acttctntgg gaagtgtcca naattgacca cccaggtgct gacggtngaa agaaccnnga 480
cccaaaacce tggactagtt gcnttaactc cattagccct gagttnccct tgnaaaanga 540
aactgggggg c 551

```

<210> 10136

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10136

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aacgtgaata atgctgttat tagagttgaa gagaagccct tagaaatggg acaaacattg 60
taattctctt agagaactgt aacttaaaca gaaatacact taatagaaga ggaaagaaaa 120
tggttcatgt gacacaaagg tcccatgtgt tgacttcttt ggtaagatca aataagtatt 180
taagcctagc aatagggtca gtccagttag tatttctcct cacaatggt gaatatcaac 240
tccaggatgg ctggagtttt ctcatggttt ggttccacgc catctgcatg tctttacaag 300
tgataaaaac cggaattttc cagctgctac tagtcacagg ggggtcccaa tatgggttgt 360
ttaattatga tgacgggtcc tgtcaattgc atccagtaaa attggtcaca tagagaactc 420
atctaaaact gagggtttgn tgtggttttg aaaggccatt ggaatccaga tttgcaaagc 480
atgtcaaggt atggcaaaac atatgccacc catnttaaaa actttcctta taatgnanga 540
ctt 543

```

<210> 10137

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10137

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ccttttaatg ataatgattt aacttagaaa tctgttgga aacttttgtc tagttttgca 60
attctcagat attccagtgc aaaaatagat cccgttacag acagcgtaaa gtgcttggaa 120
tgagggccaa tgatgaacaa agagcacaaa aacagcttca tcttagggta taagaaggga 180
taatagcata cctaaatcct tatggaaata gaaacattct aagggggatg caacaatttt 240
gaaaagaatt agagcaatat ttctacagta ttacattatt actagtagat aataacaagg 300
gtacaaatta atgtctcaat atcaaagtgg gttcagtatt acatgacaca tggctctttg 360
gaaaatattt tacctgatat atacaaccac aagaagaaaa cacagataaa tggcttttagt 420
caatgattac tatacagtga atgaatgatg tgcaacattt aatagtcaca aagcatttgc 480
tttcagtaca gataatgaaa tcagtagtgt gagggttggt tggtttttaa caatgaattg 540
ngctggggca tttt 554
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<210> 10138

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10138

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atgttacagc aaggtgtaaa cactccactt gagaaagaag tgatacttct tcccttccaa 120
gagttcccc cccccccgc ccctaccccc ccaagaggtc tggctcttgac agcaccctgc 180
ccacacagag tggctggggt ctctgcacgt gccaggcagg gtgagggccg cctgcccgtc 240
ggcctctccc cttgggttaa tagccaaggg gagaatgcaa accccagccc aaatggagag 300
```

acatttacat acgttttata taatatacaa agaaaccagc atcccaggca acatgatttc 360
 cactcccaat gctctcccag actgatgggt ttgtggggga aacaacanaa agaaaagtac 420
 actgctgagg tctcagcatt taaaaaaaaa nnnaaaaaaaa atctcccctc atttgagcaa 480
 acacctgatt tcgattttga aaagngaaat ttgnaacaag tcacaccna agaggagaag 540
 actgtgcnt 549

<210> 10139

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10139

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 aaataattgc ctactttttt gaaacaaact tggtttttac cacagcagtt tcattttctt 180
 tttccaaaag tcttaacaca attttgtaaa gtaaatttct aacgccagag agattaagtt 240
 caatgaccat agtatatgct actgnnttaa agcaaggta acacacacac acacacacac 300
 acacacacac aaaatgggac tgaacaaaag tcactactta atactttcta aattgcctct 360
 tttggaghta cgggtgaaaga aaaacattct agatgtgtct gaaagaaaca aggtcacaca 420
 ctactaaaa ttcccctttg ctttaagngt agttgaggga agttcaacta atcttaaccc 480
 tttttgggaa gaaggcaata ctcatcttca tgaattttgg ttacnttgga aacc 534

<210> 10140

<211> 537

<212> DNA

<213> Homo sapiens

<400> 10140

acaaaggact gaagtcaaac cgccaaaaga aaaatgtatt gtaacaacaa atagggtaca 60

actttaagga atgtactttt aaaattacta tgagtttata aataataacc tttcatgtta 120
 agtcttccaa tttttgtaca taaaaatgat tttcatcaaa ccactgaaac tatccattgt 180
 ggatgtaaat aaaataacca agttcaatgt aagaaagcag cataaaacaa agtaaaactt 240
 gtgatttgca aatcagcctg atgtaagttt gttgttgttg ttgttttttt ttgcctttgt 300
 agttgcagaa ggtgagctct gttttagaag gagtcatttc attccccaat tgaattttta 360
 ctcathtagc ctaaaatcac ttcaaaagtt taaaatgagg gtagaggaaa taaaaggaa 420
 aaaaagtaaa cntataggta agtttatcag atcactaaat gctancittn gaatatccaa 480
 cccagccaa tgcntaaggt ctttatgcca tcctggattt ggnntttnta aggggaa 537

<210> 10141

<211> 542

<212> DNA

<213> Homo sapiens

<400> 10141

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 atgtgacaag tacatatatc agaatcactc tttcctcaga gaatcacacc ttcccttggc 120
 tctgcctgtg gatccaaatc aagcctgggt gtggctgaca ataccagggc acggtttgct 180
 tcccggccct ccattctctac tgtttggcta cagcttgagt tcactaggca tcggctcccc 240
 tctcaggcca gccagcaagt tgtagctgc caacaaggac atgggtgttg gggttctgng 300
 ggtggcactg ccaatgtggg gcagaatcac acagttcttc agggatcatga nanggttggt 360
 ttgtaagcag tggttctggg ctgcncacat ccagtcacag agctgcaatc ttaccactgg 420
 ccaagggtct gtacaggctc ncctgggtta cgaacgtcgc ccctgggaat gacagtgggt 480
 gacatgggta ccccgaaaa atccttcgnc aagccanent ttgggggna acaactaccg 540
 at 542

<210> 10142

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10142

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gtgtgttaag tcacttgttt atttctcaag atgtgcacac tcaagtatga agctggccgg 60
gacaactcat ggctcctagg tatgtacagg ccctttgatg gcttgggtta cagacaacct 120
catagctggt gcaccacaca cacgagataa aacaggaagc ctaaaaaccc caagccacac 180
caagaaaaat gagagagggg agggcggggg aacaatgcag catcccggg agggaaactta 240
atgcacaagg agggagaaca gaggggtgaa ggcaagccaa ctttcncttc gccncgcaa 300
ctgctgnng ggtgggcaag ggactgagtt caacaagggc ctttaggaaa ctttttggaa 360
tcgggtgaan tctgatnaaa aaaccgggcc acaatcgagg gaacttttgn aaaggcttcc 420
acttggttg aaactcctcc tggaaggttt tnagggttt tgcggcagc ttcgtaaata 480
ggcatgtcgt tgnggcggat gtcctcancg agagaccgga ccagcctccc ttttgggtta 540
ctggnagg 548
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<210> 10143

<211> 311

<212> DNA

<213> Homo sapiens

<400> 10143

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agntagattc tacctctgnc acccaggcgg gagtgcagng gcatgatctc ggctcactgg 60
actccagctt aggcaacaga gccagactgn gtctcaaaaa caggaaagaa aacnaaagaa 120
aatttggact attgccaatt acaaatatatt ttagagaaga attcaaaata gtaactgngg 180
atgatggaaa caatagttat gatagaagtc tgatgaaact tcccagttca caaggaaatt 240
taattactta cgtgcagcat titaagacag taatcagaat cntgantggg ngnatnatnt 300
tagggcccc n 311
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<210> 10144

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10144

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caggataata accaaagggt ttattaactt ggaaaataaa aattcaataa aacattcaga 60
ttgggaagat aaaaatgaat aattcttcct gaaagcagat cagaaacata gacgaaaaat 120
agaaaagata aaaaatatta gagcatcagc ctgggtgtag gggagggtcc aacattgaaa 180
taataggtgg tccagaaaga aagaatgtaa ataatcacia gaaaatttaa gaaatttccc 240
atgaaggccc agcacaaggt ttaacacccg ggatacaaca ccatcatgac agttcagaac 300
accaagaata aagagatctt aaatgtttcc aggaagggtg gataaaaaaa cctaagtcac 360
atataaaggt acnggaatca gaatggcatc agaaatctca accagcaccg cttgggaagg 420
gctaggggan gggattatct tccacctggc attctatgct cagccccatt ttggtnangg 480
ccnaaatncc gactttttta gtcattgcaa aatctcaaaa tatttacaac ctttttacnt 540
tccaggtctt ttcn 554
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<210> 10145

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10145

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gagagagaga gtctcactct gtcaccaga ctggagtgcg gtggcacgaa cactgctcac 60
tgcagccctg acctcctggg ctcaagccat ctcccttct cagcctccag agtagctgag 120
atcacagtcg catgccacca cacatggcta aatttttttt tgggggcggg ggggtagaga 180
cggggatctc accatgttgc ccaggcaggt gaagttgtat tttataatta cctaaaagtt 240
atagtttatt tggtttgatg gggtagctta tttattttta atcttcaatg tagtagaatg 300
acttttttg gtgtttttgt cagcattata atcttcagtg ttcttaatga acactttcat 360
taagtttaat aaatgccttt agcaacaata atatatgcca acaagaatca tgacaaattt 420
ctacccaact cgttgggtaca tttctgattc tggttcaatg aaaatgtctc tcttaaaaat 480
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gcncactttg caaaagcttg gcataattcc ttccaagcc gtgtttacac agnantgaac 540
cgaaagagtn t 551

<210> 10146

<211> 396

<212> DNA

<213> Homo sapiens

<400> 10146

gagacggagt cttgctctgt cgccgctgga gtgcagtggc gcgatctcga ttcactgcaa 60
gctctgcctc ctggattcac gccattctcc tgcctcagcc tcccagtag ctgggactac 120
aggcgccac caccacgccc agctagtttt ttgtatttt ttagtagaga cggggtttca 180
ccgtgtcagc caggatggtc ttgatctcct gacctcgtga tccgccacc tcagcctccc 240
aaagtgtgg gattacaggc gtgagccact gtgtccggcc aggctctct tcttaattca 300
acagtcagtt atctcagagg gtttctctct agtgtctctt cctgtttgaa aggaagtggg 360
acaactgaat gcttctcaa ttnttnttn tnnnn 396

<210> 10147

<211> 515

<212> DNA

<213> Homo sapiens

<400> 10147

ctgttttttg tttttgttt tttttccca aagcggctgc agttaggtct tgaaaaagct 60
taaggtatta aaactagaaa aacgcaccaa aagttgtgcg taaaaagtt gctccccaat 120
gagaagtctt ctaccgtcat ggagcttctg tttccacata ctgtccaaga ccaccacagg 180
gtgcaccgta ccattgggag gtgcttccat attccgcaac aaatgaaact tccatgatga 240
agatccggaa gaaaagatgt agtgatggaa aaggagccac atattccaac catttaata 300
actttaattt acatactnac tnacacaggt accagggtt tgaaaataga ttggtcagtc 360

ctaaaaagca nctttggtct ggcttcnctt ttctggccct tccttttttag ccaaggcagg 420
ccttccactt tttcantact gggtaagta aggttgngtt aanaantinc ccaacgcttt 480
aatctttttt ggccntggat ttttcaggna aaatt 515

<210> 10148

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10148

cttttttttt tttgaaacag cgtctcactc tgtcgcccag actgctggag tgcagtggcg 60
cgatctcgac tcaactggcaa cctccacctc ccaggctcaa gcaattctcc tgcctcagcc 120
tcccgagtag ctgggattac aggcgcatgc cactaccgcc cggctaattt ttttagtaga 180
gacgggggttt cgctatgttg gccaggctcc tgacctcaaa tgatctaccc accttggcct 240
cccaaagtgc tgggattata ggcatgagcc accgtacctt gccctcaatg caactttcta 300
aaaaatgcct actacaaatc tcttaactaa tgactctctt aggtctgtgc aatacagaat 360
ttcttttttt ttcttttttt tttanagaca gggctctgct ctgtcaccca ggctggagtg 420
caatggcaca atcacagctn actggagcct caaactcctg ggctnaggca atcttccacc 480
ttagcctcca agtagttggg actaccaagn ggcaccaaca tcctgggcaa tttnaaaatt 540
ttgnanaaac cggg 554

<210> 10149

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10149

gcctgggtccc cacatgtttt gggttttgtg acatattgct gggcccaata cctagaaaaat 60
ggaaggctcc gcctggggcc tgtccacagt ggatctgggtg acatatctct gcattaatca 120

cctaagagat gtggctgtct tcttctccct gaaccctgct tacagggaag attgtgacat 180
 attgctggca tcagcaaaca gacgatgtgt ctctcgtaat tgggccttgc ccacagaaag 240
 cattttgaca tattgctggg cttattactg aaggtgaagg gtgactcttg cagcctgcac 300
 cctgcanggg gttggtaacg tattcctggc tgagtaccca ggtgatgtga ctcttctgcc 360
 tggcccttgt gtcaggggaa agaattgtga catattcctg gcccagaaat caaggtgaag 420
 gtgacttttc ctgttngctc cctaccacaca ggtaaaaact gnggacatat atcttgggtcc 480
 actaacagtg caataacgac tntaatgccc acataagcca ntngaaagga actggcagtt 540
 taactgggat ttgaaaaaan ggta 564

<210> 10150

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10150

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 aacctccgcc tcccgtgttc aaacgattct cctgccacag cctcccgagt agctggaatt 120
 acaggcatgc gccaccacgc ccggctactt tttgtatttt tagtagagat ggggtttcac 180
 ctgttggcca ggctggtctc caactcctga cctcaagtga tccacccgcc tcaccctccc 240
 aaggtgctgg gattacaggc gtgagccact gtgcctggcc tatttattta ttttattttt 300
 gagacagcgg gagtatctcc caagctggag tacaatggcg tgatcttggc tcaactgcaac 360
 ctccacctcc cgggttcaag caagtcttat gcgtcagcct cctgagtagc tgggattata 420
 ggcatgcgtg accatgcctg gctaactttt ggatttttta gtanagatgg ggtttcacca 480
 ttttgaccaa actggctcga actccngact caagngactt ctgccttggc ctcccaattg 540
 gtgggataca g 551

<210> 10151

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10151

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gagatggagt ctagctctgt tgtccaggct ggagtgcagt gacgcgatct cggctcactg   60
caacctccac ctcccagggt caagcaattc tcttgactca ccctcccga cagttgggtat  120
tacagggtgcc cgccaccacg cccggctaac gtttgtatit ttagtagaga cgggggtttca  180
ccgtgttggc cagcctggtc tccaactcct gatctcaagt gttccacctg cctcggcctc  240
ccgaagtgtt gggattacag gcatgagcta ctgcacctgg tctaaagggt catttttgta  300
atgtcactat tatggctctg acaataggga ccagagggtca tttcatttta ttattgggtta  360
tctacatttc tctctcagtg tgaaacttgc tgatatttga agaaactggg atgtgaggca  420
gggaccaatc atggagggtg gtctgagacg gaggggggtt ctgggaggca ggactgatgc  480
tggtgctaata gctggggaaa gtcccaggca ggctancang gtggcaccaa gcttcgatgt  540
gaaccgccgn antntgcn                                     558

```

<210> 10152

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10152

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aaacagagtc tcaactactc tgtcgcccag gctggagtgc agtggcatga tctcggtcga   60
cagcaacctc cacctcccag gttcaagcaa ttctcctgcc tcctactcct cccatgtagc  120
tggtgattaca ggtgtgtacc accatgcctg gctaactttt gtatttttag taaagacggg  180
gtttcaccat gtcagccagg ctagtcttgc actcctggcc tcaagggtac tgcctacctt  240
ggcctcccaa agtgctggga ttacagacat gagccaccgc acccagcctg gttgggagaa  300
tgttctattg attccctagg atgctaggaa gtactcagca aatactaaat gtagcaattc  360
tcaggggtta ggaggagttc aagataaatg agtattgtaa acacagtagt ccaggtaagt  420
taagcccca tgccctcttc aggaggcctg gtctctggac acttacagaa gaaaagtcca  480
cccctcgtat acaggccttc catagcttac ttctcaacag actgnagctt caacctgaaa  540

```

caccnttttn catnttacta a

561

<210> 10153

<211> 571

<212> DNA

<213> Homo sapiens

<400> 10153

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gttttttttt tttttttttt tcccagttag aaaacgtttt atggacacgg aacgctccac 60
tgtaacgggc aggcagaaca cactcctttc ccaggctcat caattaaaca gaaaacaggg 120
gagctctcct caccacagcc tggccctgtg ctccccaatg gcccctgcga ggcccctacc 180
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ccagacacac ccatgcctgt gcctcccaag agcgacccca ggacagtggg gcagacagag 300
gtgtctacac tggcagaaat aagggtgga gccacacgtg atgctcggac acaaacggca 360
cgcagctctg cagcctggcc acacaccctt cgcgtatgac tccactcctc agggttcacg 420
gggctgtgta cagagactct ctctgctgac acgatggcca cacgcccttc gngtatgact 480
tcacttcctc agggttacgg gcttgtgtac agagactntt tntgntgacc catgggcata 540
tggncittgc gtatgactcc attcttangg t 571

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<210> 10154

<211> 533

<212> DNA

<213> Homo sapiens

<400> 10154

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gaagtgggtgc aaagtacatt tattttttaca atgaaagctc atctatgaat ctgataaagg 60
ccttccttca actggagaca atttgggatg ttgcaaaaca aggtttggga agcccttcta 120
tggatcggtt ttgtgtccaa gtctgtccct gccaaaagcc atcaaaagtc tccatcacc 180
ctgggctcca gtctgtacc cccagacttg gcagctggga tctctccttc ctggttcata 240

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gttctcatat ccacccctca gcgatggagt tagagttcca ggcccacgtg gtgaacgaga 300
 ttgtgagtgt caagagggaa tacgtagttt atgatctgaa gacccaagtc ccaccccagc 360
 aagccggtgc cctgcttcca ggtgacggtg agtcaagtcg cgaggaggcc gacagagggc 420
 tgctggangc cggttggaat naaggatgca cggncanaag ccangcccca tgcccccgan 480
 gcccaacttc tttccccccg nccggaaagg cctgactttt ccccttcanc ttg 533

<210> 10155

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10155

acagatagga tcttgctgtt gcctaggctg gagtgcagtg gcacaatcat agctcactgc 60
 agcttcgaac tcctgggctc aagcaatcct cctgcctcag cctcctgagt agctgagact 120
 acaggcacgt gtcaccaagc ccagctaagt tttttatitt ttgtagagat gaggtctcac 180
 tatcttgccc aggttggctc ccaactcctg gcctcactca atcctcctgc ctcagcctcc 240
 caaaacgctg gagttacagg tgtgagccac tgcacctggc ctttgtatit tagtataaaa 300
 tgtgctttgg atagaatcat tgctttttct agcttgnggc cttttttttt ttaagtatct 360
 gnataaggca gtttgaaaac aagttcaagc tggacactct tgagtccagt cctcatgttt 420
 tcagcccact gttgcacca attcgtgtgg gcaagcctgg ggcccatggn atgagggatc 480
 tnccagtaag gaagctgnta tttggccaaa accgcanaaa ctigaaactt aangggatcc 540
 aaataaatgg cngttgngg 559

<210> 10156

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10156

ccaagactat tatttttatt tccggacaaa aacatctgct tcacacagtg cacggcatca 60
aatgaagagg aaagaacttg tatcccaaag cctggctttc tgtatcatcc acaaattaag 120
acagcatctg ctgagcccat gctgagcctg tcacagtcaa caactgggaa accggggcct 180
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acatttgttt atttaaagca caggaaatga ataaaatgcc acctaaaaag tatctgcaat 300
gaataaatta ttccagtga agcactgcag atccacacac accagtctgc taacctttac 360
caaggccatg tccgggtggc ttgngcttgt cccagttgac tcttccttga gacctttccc 420
ttctngcaa tgaccacagc attagagacc agtcctgcat gcgctggctt cctcgaaggc 480
atggaaaacc acgtggatga ncagtgggct ggcattgcag aaggtttaac aaanggactt 540
tactggtttc aggggccctg a 561

<210> 10157

<211> 502

<212> DNA

<213> Homo sapiens

<400> 10157

agatggagtc ttgttctggt gccagggctg gaatgcagtg tcactatattt ggttcactgc 60
aacctctgcc tcctgggttc aagcgattct cctgcgtcag cctcccgagt agctgggatt 120
acagatgcac aacaccacac ccggctaatt ttttgtattt ttagtagaga cggggtttca 180
ctatgttggc cagactggtc tcgaactcct gacctcgtga tccaccctcc ttggcctccc 240
aaagtgtctg gattacaggc gtgagccacc gcgccggcg gccctgacta tttttaatga 300
gccccgcgc aacaggctgg tgtgaaatgt gtgttgaggg atgctttgng aagaataagg 360
natnacagaa agacagtgc ctgatgggtc aatgaaagca acacagnct tcttaacctg 420
nccaagaaac ttatggnntt gggggaacaa tcaangact taaataccct ttaagnggaa 480
tctcatgggt ttnacaggaa na 502

<210> 10158

<211> 575

<212> DNA

<213> Homo sapiens

<400> 10158

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aaagacagag tctcactctg ttgccaggc tggagtgcag tggcatgac ttggctcact   60
gtaacctcca cgtcccagg tcaagcaatt ctctacctc agacccccaa gtaactggga  120
ctacaggcta atttttgtat gtttagtgaa gactgtttcc ccatgttggc caggctggtc  180
tcgatctcct gatcacacgt gatccacca cctcggcctc ccaaagtgt gggattacaa  240
gtgtgagcca ccatgctcgg ccccagaggc acgtttctaa gtcctgaatc tgcagtgtg  300
gctacaggca accttccctg ccattgacaa gtgttatcaa tctgtttgac ttggctatat  360
gcataaccaa ggccctgac ttcccatctc caacaaggaa ccacttttct taatgcagtt  420
ctggagcaaa tccagatgtt tgtcaaagct tgactgcccg catgctcct gacccatccc  480
ccaaanggct tntagaacaa acaataagcc atggcaagg tctggcacgg anccaagcct  540
tggaaaaact agtttggagg taaggcttgn ccang                               575

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<210> 10159

<211> 518

<212> DNA

<213> Homo sapiens

<400> 10159

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ctcaatcacc gtttttaatt ggctttataa gctaaagtgc atagtaaaga caaaaaaagg   60
aaatgcatac ataggaaagg gacacttaga aaggacctga gatacctaaa tgtctgttct  120
aaggaacact ggaaggaggg aatgcagatg caggcagcag gcctgggtct ggcttctggc  180
ctgggttttg agcctgcana agctgctggc atgctagctc taccaggga acagctccaa  240
gagggagtgt tgggatgaag gatcacactt gggatagggt ctgctggtac caaatgtgat  300
tttagctcca ttcaggggcc aggggtaacc agcagtgcc ccaaacctgt cancaggtaa  360
agaaacttct accatcccaa agtgcaggtt acaggaaagg ggtcactcct taatgacgac  420
ctgggcctgc tgcataangc ccatcttatg caacatgtgg gctgnccatc tttcccactt  480

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ttnagggcta tgnacttggg caaggtnaan tggncaac

518

<210> 10160

<211> 474

<212> DNA

<213> Homo sapiens

<400> 10160

caaatcacat atggcttctt tgaccccatc aaataacttt attcacacaa acgtccctta 60
attacaaag cctcagtcac tcatacacat taggggatcc acagtgttca aggaacttaa 120
atataatgta tcataccaac ccaagtaaac caagtacaaa aaatattcat ataaagttgt 180
tcacacgtag gtcctagatt accagcttct gtgcaaaaaa aggaaatgaa gaaaaataga 240
tttattaact agtattggaa actaactttg tgcctggctt aaaacctccc tnacgctcgt 300
ctgtcccaca caaatgttta agaagtcact gcaatgtact ccccggctct gatgaaaaga 360
agccccctgt acaaaagatt ccagtgtccc tgaagagget cccttcctcc tgnnggctct 420
cctanaaaac cagngggacg gcctcctgct gatccgnnta tacctanggg gncc 474

<210> 10161

<211> 446

<212> DNA

<213> Homo sapiens

<400> 10161

ccctcaatac aacaagttgt cacaaatcgt cacagtgata cagacttatac agaaaccaat 60
gaaacaatac aaattaaata ctaataaaat aaatactaca gaagacagaa gaacacaggg 120
gaatggagtt ggggggcgct cagagatctg ggattttctc atttctctc gggacaggcc 180
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cccggcgcca cctcccacca cccccgggac ctcttgtcct cagacatgga gttcaacttt 300
ccacccccat cagcaaccac gataacaatg acgacgacag ggagatgaga actaattgta 360

accaaaaaaaaa caaaaacagt ccagtcgcta atgctggcat tgataaggcg gnttcttgtg 420
gnccgtatta ttgcctnant nttnan 446

<210> 10162

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10162

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cacagatgac aagagctcaa aggcctggtc acagtggctc ccgggaggcc agtacacacc 120
cactgtcctc agacagaaac acacaacaca agggtttagaa acagggtttc aaagacaacc 180
ctctgggcca ggaatgagga gtcataaaat acttcaatta gccattaatg ctttaaaaag 240
gcattttttt aaaaagtccc accacaaagg ctcaacttca agtactaatt taatgggtaa 300
gttgtaatat ttctttgaaa taatattcct atgggtccaga aaaaattcac catatttata 360
actgatttca tgagcaaaca ctttcaattg ntggatgtac ataagtcctt tttgatctaa 420
tgagaggaga gacctggcct ncaataagaa ttcactagaa atatatttcc gtgggactnt 480
ttaaacttat taagggcctt gcctccatgg ntttanntta gcttgctggc ctttggnnta 540
aanggtatcc cttatgaaag gcgg 564

<210> 10163

<211> 373

<212> DNA

<213> Homo sapiens

<400> 10163

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atncaacagg gaaaaacatt tcctnttttc ttggagcttg cattcttggg gganagacaa 120
atgaataatt aangccaagg agnggggaaat atgagtaana aaaaaaaaaa aagaggggtt 180

gganaaggga aggcctcctg aggggacatt tcagccaana cctgaatgat ggancaagcc 240
 acacgggcct gagggcagca gcaggatgga caggaccaa ggtccgtgca aaggccctga 300
 ggctgaatgg ngtttgagga atgttgaaag gccngtgagg aggggaancc taanaggaat 360
 taanatccnn cag 373

<210> 10164

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10164

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 ctgcctcage ttctcagta gctggaacta cagggtgtgca ccccccacacc cagctaattt 180
 ttgtatTTTT agtagagacg aggttttgcc atgttggcca ggctggctctt gaactcctga 240
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 gcgcccggcc ttngttact tttaatgagc caaaagacag taagaaggag caaagcaaaa 360
 cccaccgaag gctctgtggg cagctggccc tgaaagcaca tcctgnctct tgnTTTTacc 420
 aactatgtga gcctttgggc aaaataccta acagtctgaa gccttaagtt ccttattaga 480
 aaaagggaga agatgatctg gatatttctt aagggtaatg gttcttccat ntctgaagg 540
 agg 543

<210> 10165

<211> 542

<212> DNA

<213> Homo sapiens

<400> 10165

ctctaattctt gtcttcatgc tttatttcat taagttgatc ttcaatctct gatatccttt 60

ctttcacttg atcaattcag ctattgatac ttgtgtatgc ttcataaaat tcttgggctg 120
 tgttttcagc ttcatacagg cgtttatgtt cttctctaaa ctagttattc tagtttagcaa 180
 ttcctctaac cttttatcaa ggttattagc ttccttgcac tgggttagag catgcttggt 240
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 ctcattctcc atccagtttt ggtcccatc ctggcaagga gttgtaatcc tttggaagat 360
 aagaggtatt ctgatttttg caattttcac ctttttatg ctggattttc ctcattctca 420
 tggatttata taccttttgt ctttcttgtt ggtgacctta ggatgaagtt tttgcatggg 480
 ccgccttttt ggtgaggtga tgctactgct tttggnata agttttcctt ctaacagtca 540
 gn 542

<210> 10166

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10166

gagagagaga gagacaagga tcttgccttg ttgcctggac tggagtgcag tggcatgac 60
 atggctcact gcaacctega cttctggggc tcaaggatcc tcccatctca gcctcccaag 120
 tagccgaggg actacaggca cgtaccacca cgcccagctc ctaaggacat cagctttaag 180
 tacaatgctc caatttcttc ttttcacaag agtgtatcca tgtattactt atgaaattga 240
 aagtttaaaa aagctttgag aaatacaaat ctaggggggaa tgtcttgagt gagtgggatt 300
 ctgacgactc aacggattaa atgtcatgag ggctgatccc agctgcctgg aatgggtctg 360
 ggctgtggaa ttgcaccgac aggtgtgcca gcacagcgct ggccctggcc aaggtgtgga 420
 acacactgac tcccagcact gntccgaggt gctgggaacc ccaagtgcaa gacattacaa 480
 gacgccacgc ttgttgccaa cactgnatcc cgggaccgga ccagcggagg tgttgatn 538

<210> 10167

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10167

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gagtttcaaa acgagaacat ttattatttg ttttttcctc attaaagttt cacaaataaa   60
gcacagcaag acttgctctgc agacacacag gaggcaaacg gacagcccgt caaccagaga  120
tgagagcgaa ggccagcgtg gctctcacag ggcagcgctt ctcagaacct ctggccccc   180
tcgtgccaaag gctggcctgt gtcaggcctc gccacgccc ccttatgaca aatagaggcc  240
ggtgccaagg aggtggctac agagcagggg caaggaagtt atcctcatgt tctgataatg  300
accctgcaaa tcccacccca cctnaggca cctnctgcta anggtgtcgg ttactccagg  360
taaggaggtt cccaggangg ccgtgttttc cctaaggctg atgaaacttg ctccgacaag  420
ccaggccact gggaggcacc tcaggatgga aaagatgctg gaggctttgc tggctttcag  480
gatgcccgga gccccacggg ggccaaangg gaagaangaa agcgantntt aagacagatt  540
ggtgntggt                                     549

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<210> 10168

<211> 537

<212> DNA

<213> Homo sapiens

<400> 10168

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caatgtccac atcttcatat ttatttccac agtggttaaca tggaatagac ttagcaacca   60
ttgcagagaa aaaaaaaaaat ctctcattgg tttatgagtt aaatcctgta acaatgaatt  120
tcaaccattc gaagtcttct gctgcttaac atttactgaa tcaaaggctg aagtaaattg  180
actctcatct aggtctcaga aatcacacag ctggcctcgt gatgtattta cgatgggatt  240
taacttctaa tacaaggcaa gtttgacagt tacagccaat gaagtgcacg actctgtaca  300
tggtattctt gacctaacat tcaaaaggac atttcatagt actagttaa ttctgatctc  360
tctctagaag gcagaaacca catccacac tcctatgcaa tttgttattt tggatttgta  420
aagtaaata gaataaagggt gtggaggcat aaagaaaatc tagtttctgg ctgggcangg  480
tggttcacgc ttgnaatccc gcnccttggg aggccaaggc ggntggatca cnaggnn   537

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<210> 10169

<211> 542

<212> DNA

<213> Homo sapiens

<400> 10169

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gagacaggtt cttactctgt caccaggt gaggtgcagt ggatctatct cggctcactg 60
cagccttgac ctcccaggct caggtgatca ttccacctca gcctcctgag tagttgggac 120
tataggcaca tggcaccacg tccagctagt ttttgtatit tttttgtaga gacgaggttt 180
cgccatgttg ccccggctag gcttgaactc ctggcctcaa gcgatccact cgcctcggcc 240
tcccaaagng ctagaattac aggcatgagg tactgagcct ggcttgactt ataattctga 300
tgaaaatgtt caatgtcaac ttaagaatgg gcaagggagc acatgggctt ttggaattct 360
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tcggtcact gnaaccttcg ctccgggtt caagcgattc tcctgnctaa ccttccaagt 480
actgagaata caggcatgca ccaacacgcc cagctaattt gganttttag ganaaanggg 540
gg 542

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<210> 10170

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10170

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aaaaacatga gagcaaattg tacatatatc aatctccctt gcttgtcttt aagaaagggc 60
cgttcatagc atttggcaca aacctctat ttctgttgca ttagcatgat tttaaataag 120
aaggaaaata aacatttgat ttatttcatg cttcctaagt ttctgggcag ggacatgcct 180
tactctttta gaaaccaatt ccaagatgac atctgactgc atttttctgt tgggccgaac 240
ttctaaacaa acactcataa agtaagtta aacaatttgg agatgtatga ggaaaaagtc 300

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ttgttctgtt cagttcagac ttgtttaaaa aaaaaaaaaa aaaangaaaa gaaaaaaaaatg 360
 ctcatctcac atgtccatga tcttcatgga ttttttttaa gcttatttga gtttgattaa 420
 gggacaaaaa agaagaggcg gcaagttttc cctatctctt tggagtgttt cgctcaagga 480
 aattttgctc atcaagggtca gctacatacn cagnggacac atnaaaggca aactgggggg 540
 ctccgaggat acaaagg 557

<210> 10171

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10171

agtcctagat acaattcctt tattatcatt atcatgcccc ctagcacatg aagctgggct 60
 tccacctaga tcagctaagg acaggggtat gtttacaatg agaacaattt ctctatgcgc 120
 attaggttaa gacctcttct ctgtttctag aatactgtga tgactcacat ccatgggcca 180
 gctgcttcca ggaatccatc tggcctcaac aacattgggc tgcctggaat aacggctggc 240
 acttgcacag ggcagggtat ggggagcagg cctcaggctc ataagcagga ctgggcactg 300
 ctgaaatagg ggaagggggc agccaacatg tagcagggtc tccaaggca tgtagaagtt 360
 ggtgggaaaa tggggctggg gtgtgtaact tgtccccttc caggaaggga cccaggcacc 420
 tggctctctg gccaaagatca caggcgatcc aagagtcctc cagggaagaa caagactgna 480
 cagacgcaca gcanaaangc tttcctggct ggncatgaac tgccatggng acacgcttna 540
 ttctagcccc caaggg 556

<210> 10172

<211> 472

<212> DNA

<213> Homo sapiens

<400> 10172

aaaaa caaa gtgtgcattt tccttactac gtttagtcag gaatatgcgg tcattttatt 60
 ggttactggg tttctacatac aaacagatat aatatcactt ttaagagaaa tgtacacaag 120
 gaagtaacca tagtaccact tattagtggg ggcctctggg tacataaatg ngtcctccca 180
 aatagtcata atacattcaa tgtattgggt agggccaaaa tccctaaacc acctntcaac 240
 aaaacattac acctttgggt ctttattatg caaaaattac aaattggcaa attcaataag 300
 aggatgcaat gggatttgag catnacagcc aaattgctta tactaaaaaa ttttaaattc 360
 ttanaatctt ttttcttaa acctttncct ttcccacctt acatnagaaa aatggatgct 420
 taaaacnaaa cnggaggagc aantaaccaa ccaaaaaacc cnttcccaa ng 472

<210> 10173

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10173

ccatggctta cttttatttt ttattataaa aacacataca agagttttta gaaataacga 60
 atataagaca aatcaaaacc atggtgagtt attaaaccca ttttctatat acaaatacta 120
 aaattcccaa agnggaatat catccaatgt gagacacatc atagcacggt ccatatgtac 180
 acggcacaca gagctctgcc tgcgtcatc tgtgaattgc tcattacatg tcaactgataa 240
 aaaaatctgc aagggaactt ctactcttca gttctcctct tcctgatgca ttgtcacata 300
 tttttaagga actttaggga tatgaagaaa atgcattaaa gtgggtttct gctaagggct 360
 ctgcatgttt tgctctgata aattacgcac tacatcttga gaaaaacttt tgcaactcat 420
 ttccagcaaa gatagcagaa aactctangt ttttgccaat taatttttct ctagcctcat 480
 tggaacccaa gtccaacacc accggttang gacccaatca tggtttttat attgggaagt 540
 caattntaaa aggcccctca att 563

<210> 10174

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10174

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gtttttgttt ttttttgaga tggagtcttg ttctttggca aggctggagt gcagtgggtg 60
aatctcggct cgctgcaacc tccaccacc gggttcaagc gattcccctc cctcagcctc 120
ccaagtagct gggactacag gcgcccgcga ccacgcctgg cttaattttt tctatttttag 180
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ccggcctcga cctcccaaaa tgcttgatt gcaggcatga accaccgtgc ccagcctcat 300
tagttcttaa agtcactaat agcattattt tatgcccacg aaccagtaag tcagacaaaa 360
gcctgaaata gtgttttctg aaaaatggaa aaggaaatat aagaatttta aaaacaaacc 420
ttgaaatcag tttctcaagt taaaattctg atggatgtca caaatagtaa gggcttcctt 480
actgagctct ggcatctgnt ttggctttta tgcatactgg gatttgggaa gctgctgctc 540
aacattctag cccatttnca gaggggnc 568

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<210> 10175

<211> 541

<212> DNA

<213> Homo sapiens

<400> 10175

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ggagctggag ccttgctctg tcaccagac tgaagttcag tggcacaatc tcggctcact 60
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tttcagcacc tgccaccag cccagctgat ttttgatatt ttagtcaaga tgagattttt 180
gccatgttgg cgggctggt ctggaactcc tgacctcaaa tgatccgcct gcctcagcct 240
cctaaagtgc tgggattata ggcatgagcc accacacctg gcctttttct tctgtttcta 300
actgttcctt tttatttccc tatggagcat ctactgagcc ccagcccgag agtagaaaca 360
aacctgctgg ctgctctcaa ggcacttata gtccagtagg ggagacggca ctnaccactc 420
agtcacacaa atgaccgtcg aattgtgacc caccctaagg caattggctt ttctgaggac 480
taaggaggga cnaggagcta aggaggacc ctttatgcc antaaaacct ctggggaact 540

```


t

541

<210> 10176

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10176

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cttaaaataa aattaaggct caaatgttct attaagctct cattgcttat gtatattata   60
ttaaggctta taaatgcacc tggtaaatta aattcaccct ggattgaatt aacacctgct  120
atatgagtta tttgctttat gtaatcagta atctcaagg ttcctctctt tctctggaaa  180
cacaatttaa atattaacct aatctttaaa ctgcggctgc ttctttctga catttggaaa  240
ctggatcatcc atacaaaaaa aggcaaatat ggatatatta atgaaaaggc agcttctcaa  300
aaatcttaaa gtatgtaact caatgaattg ggaaggaaaa tgataaaagt agcaggaaag  360
tcaagtcttt gtgncacttt ctagggaaaa caatgctggt catctgcca caacaccttc  420
agtctgagaa cctgctgaag ttgactggca attgccaaaa agtctttggg tttcttcatt  480
tgaatctctg gaaaaancct gggaagctgc catgccgtgc aaaaaaattt taattttaaa  540
aangc                                           545
    
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<210> 10177

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10177

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caataaatgt atagaaattg ttttattcaa agactaaggg ggaaagggtg agaaattaag   60
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aaaatggaga cgacagtagt tacgacaaat acttgagaaa agcctatgaa attactgact  180
ttggtagtcc agccaaacat ttgcttcagg aaaagcatcc agaaatataa tgatttaggg  240
    
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atatcaaggt atactatata aagcattggt gtatatatta tttcctcttt tcccttggga 300
 ggtaatatct gaattattat cagactccta atgaggaaac actctgagaa gtgagaagcc 360
 tgccttgtgt caaantgggt aaaatcagag agacaaaggc gttagggtc gactcaggnc 420
 ctctgacttg cagggttcta ttgaagtgn caccttgcct gagctttnaa gcttaaggaa 480
 tgggccnagg aataccctgg ggcattcnc nccggaa 517

<210> 10178

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10178

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 aggagtcca cagaaaaaga tggcaaccag aatgatattc cgtcagccag atttttaaaa 240
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 ctccaagaag ttctgtctca tattacttcc tactcctntc cagaataagt cagaaccttg 480
 aagtcgtcat catcttaggg gaaaaggaaa atctangggc ctttttcaag aatgagctn 539

<210> 10179

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10179

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gcaacctcca tctccctggg tccaagccat tctcctgcct cagcctcccg agtagctggg 120
 attacaggca cccgtcacca tgcccggcta atttttgtat ttttagtaga gacagggttt 180
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 ccttgtcccc tcacctttgt ggaggtgggg ttttagctgga gctgaagggt agtctgccct 420
 caggtagaag catggtgggg agagaaccan ggagtanggg tggggtgtna anaccttccc 480
 ttcacaattn cttgangagt ttttngggg ctttatt 517

<210> 10180

<211> 463

<212> DNA

<213> Homo sapiens

<400> 10180

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 tgttcccaga gacacttgag acggggatca accccatttt taaaatttga gacagggtct 180
 tgctgtcacc caggctggaa tgccgtgaca tgatcatagc tcactatagc ctcaacctcc 240
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 tatttttttt tgtggagatg ggttcttgct atgttgccca ggatggcctc gaactcctgg 360
 cctcaaggga tctcctgcc ttggcctcca aagtgttagg attataggcg tgagccactg 420
 nacctggnet naaccccant ttttangnga cttggcttaa aga 463

<210> 10181

<211> 484

<212> DNA

<213> Homo sapiens

<400> 10181

cacagaaccc actcaggatt ctttctggaa acaacctggg ggactttgat gagaggctca	60
agccttctag ctacctcaca ggtcagactc tgggccccag gaacccttg ccctgggcct	120
gccctcaggg aatgattcat aattaagaga aaagccttgt gctttatgtt tcttcctcct	180
cctctaagca ggcggcaggg gaaggtggag gggttggag gggaatgggg ggaaccgact	240
ggagactggg attttgattg agaggcccca ttatccacac tcttaaaaa ataaccgaat	300
cttttccttt tttatcttga ccaatctcat ttcacgtcc agaagaggaa gggagggagg	360
gagggagtcc ggggccagga gggacagagg agtcagtatt ctgnattttc aacgctgcat	420
taagcacatn gncacggtaa ccaggcagca acaaagtgcc ancttaacan gntnccaagg	480
gagc	484

<210> 10182

<211> 355

<212> DNA

<213> Homo sapiens

<400> 10182

atccaaagtt tcatccattt tataatcaat attagtaaaa aagaccaaga cacatgggct	60
gggtgcggng gctcatgcct gtaattacag cactttggga ggccgaggng ggcggatcac	120
ctgaggncag gaattcgaga ccagcctggc caacagggtg anaccccatn tntacttaaa	180
acacaaaaat tagcagggca tggnggngca cacctgttgn cccagctact tgggaggctg	240
aaacnggaga atcttttgaa cccgggaggg ggaggttgca gcgagccaag atcacnccac	300
tgnactccaa cctgggtgac agactngac tctgncaaaa acaaaaacnn aaccn	355

<210> 10183

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10183

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gagggcaagt cttgctctgt caccagggt ggaatgcagt ggcacgattt cagctcactg   60
caacctctgc ctcccagggt caagcgattc ttgtgcctca gcctctcaag tagctgcaat  120
taacagggtgt gtgccaccat gcctggctaa tttttngct tttagtagag atggggtgtc  180
accatgttgc ccaggctggn ctggaacttc tgggctcaag tgatccacct gcttcagctt  240
cccaaagtgc tgggattaca ggcgtgagcc actgcgcccg gcctntatca cacttcttat  300
gccaccagg taagcatttt catggggctg gcttctntnc ctttttgag aacacggatc  360
aagggtgaa actttggaat ctacagnacc agccataatc aaccctttt tccacaanac  420
acacaaggca agcatgcctg gatccttttg gacacanggg ncacatacat gccctaatta  480
cttgggagag atntncatac cttntntntg ggggggcnca cgttcctttt caaggccaaa  540

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<210> 10184

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10184

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aaatagggac aaggtctcac tatacttccc agactggtct ccaactcctg gcttcaagca   60
attctcctgc ctccagctcc caaaatgctg gaattacaag cataagccac cccacctggc  120
cagtttcagt ctattattat tattattatt ataatttaag ttctggaata catgtgcaga  180
acgtgcaggt tacataggta tacatgtgct aaggttggtt gctgcacca tcgacctgtc  240
atctacattg ggtattttct ctaatgctat cctccccta gtctcccatt cctgacagg  300
ccctggtgtg tgatgttccc ctccctgtgt ccatgtgttc tcactgntca attcccactg  360
atgagtgaga acatgtggng ttingtttct ggccttgnga aaagtttgct gagaatgata  420
gtttccagct ttatccattn cctggaaang acatgaccgg anccttttta atggcnggat  480
aagnattcca tgggatatac gtgccggaat ttcnttaatc ccggctatcc tnga       534

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<210> 10185

<211> 528

<212> DNA

<213> Homo sapiens

<400> 10185

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caaacaaata agttttatng gcatntaaaa acaaaattca cccaacattg aaacgtncct   60
taatatttat gttgttgttt tcttgtttct tttttactca ctgcagtatg aggaacaaat  120
cacaaacnct tactttggan aaacaganac cgtagngtan attttacaaa atcacttttt  180
aaaatctctg tattgggctc ctcaaatacc tanagccagt ctttgcataa aatatcacag  240
ctttatctat aaccttaaaa ttctgcagca gcctaaagat atggataaga tntaccacca  300
cttgctattc tgaaatatnc ctattaccat atccaaccta angatagtat ctaaaaaatt  360
ctttcttcca taggaagtct ctgacaagct gntattcatt tccttgacgt taaaagaatc  420
tggggccaac atttggattt tatccgaaaa aaattnaaaa aaggttaccc accatgggtca  480
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<210> 10186

<211> 503

<212> DNA

<213> Homo sapiens

<400> 10186

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gagggtctggg gaaaatctta atggccaaaa cataaaacaa acctgcgtgc acacaaacga   60
gacacaatta cagaaagcat agagcctggc tctccccctg gcctcaaate ccccaggttt  120
gagagtcatt acttctgggg gatggtgact agaaggtggt gggagggagg cttctaggag  180
ctggtgatgg tttggtggtt tcttcacttg ggagcctgct cctgggtgag tgcgggtgaa  240
aagtcatcca gcaagacctt cgctcttctc tgcaggcagg taggttatcc ttgagccatg  300
gggatgacag aaagctccca ctgctcanca ggggtcccgg ctcttgcga ggtctctacg  360
gactctnttc tgtgacctgg gcaatgcccc actnttttca atattcaagc tgtggcgtn  420
ancaaggccg ttatgggaag gaangggcaa aaggatcaaa gtaattggga accantgaca  480
ncgggttaag ggtnatgcca naa                                             503

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<210> 10187

<211> 447

<212> DNA

<213> Homo sapiens

<400> 10187

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atcatcaagt cttaccattt atttctttat ggggttaaac aagagcagag aggcctntgc   60
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gcagggttaag agggagggca gagacaactg aatcatagct gggtaaggga ggaagggatg  180
ggggactact aggaaaccag tttggagact cagtcatagg aactagtgc aaaaagtcct  240
actcatgaag cacgngtag aaaatggcat aagaaagctg cccggctctg ctgtctgtga  300
tggagggcag gggcagccgg anaggtggtg gaagattagg gtggtggggt ggatgggggc  360
agtcaaatga ctttgagggtg gantgagggtg ccccttttnc ctgccctggc aaggnccttg  420
gctggntga ccanggtct tctnggn                                     447
    
```

<210> 10188

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10188

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gagacagaat tttgctcttg ttgccaggc tggagtgc aa tggcgtgatc ttggctcact   60
gcaacctcca cttccgggt tcaagcaatt ctctgcctc agccttcaa ggagctggga  120
gtataggcat gcaccacat gcccggctaa ttttngttt ttagtagaga cggggtttct  180
ccatgttggc caggctggc tcgagctccc aacctcaggt gatctgcctg ccttggcctc  240
ccaaagtgtt gggattacag gcatgagcca ccgtgccag ctgactttca aacgaaagtt  300
cactttacca tcaaactcaa aatgtagaga tatattcaat cgtgtgttta gtacagcttg  360
taaattccca ttcaaagggt aactgtaaa tagaatgcag gtcataaca agtatttttc  420
    
```

aactcttagg atggntgaaa gactgtctca gaaaatctgc aatgaactca naaggacact 480
 tttttgtcag aaaaattcac cgtaacttt aaaantacat ggctgaggcc ccaaggcatn 540
 gtna 544

<210> 10189

<211> 497

<212> DNA

<213> Homo sapiens

<400> 10189

gacaggttct cactctgnca cccaggttgg aatgcagtgg tgcaatcctg gtccactgca 60
 acctccgcct cccaggctca agcgatacac ccacctcagc ctcccagagta gctggggacca 120
 caggcatgcg ccattacacc tggccaattt ttttgnattt ttggtagana tgagttctca 180
 ccatgttgcc caggctgggc ttgaactcct gagctcaggn gatccaccct intcancctn 240
 tgaaagtgtt gggattacag gcatgaccca cggccttcgg cccananaca gtttctataa 300
 aagacggntt cttgccatct cagcacacca tcgcgaagga gtgacgggct ctttcagaga 360
 catggagggc caggcacctt gtgaccacat gcacaagtga ccagnacaca aaantgggtg 420
 aagcaactgg gccctgggcg cctgacccaa ggngggggccc atccanggga atgggatttg 480
 gatggagann cccgngg 497

<210> 10190

<211> 279

<212> DNA

<213> Homo sapiens

<400> 10190

gggagacagg gtctcactct cactcaggct ggagtgcagt gttgcaatct tggctcactg 60
 caacctctgc ctcttgggtt caagtgattc ttgtgcctca gcctcccgag tagctgagat 120
 tacaggcatg tgccactgtg cctggctaata ttttgtatit ttagtagaga cgggggttttg 180

ccatgttggc caggctggc tnaaactcaa actcctgac ccagntgac cgnccgcctt 240
ggcttcccaa atngctggga ttacaggctn tgagccacc 279

<210> 10191

<211> 555

<212> DNA

<213> Homo sapiens

<400> 10191

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tcagcggctg tgaaggaggg acccgcaaca cccgctaagg caggtaattg caagaaggca 120
ctcgcgaggg ggacttcaag cccctcttct atttcttcat ataaaatcag ggggatgggg 180
aaagctccaa gggcgaggga agcagagaga gtttctctcc cagcctatgg aataaggaag 240
aggtgaggaa ggggtgggtg ctgggagcaa gaaactgcca agtccaggac ctgccctcac 300
acagacacac acagcccgca cctgccctcc ctctaaaatc tgcacccggg gctgtaagga 360
agccccgtgt tcaagcccc atctcttctc cttcttagct ggtaccaagt tggtaatcac 420
cactctgggt gatgtagcga acccagggca nggcctggta ccacttttct taatgatcct 480
catgtatcgg acctggatcc agaaaacggt gaaattnggg gatctnaact tgaccnatt 540
gggggggccc gcctt 555

<210> 10192

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10192

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ctctgcctcc tgggttcaag caattctct gcctcaccct cccgagtatc tgggactaca 120
ggcatgtacc accatgccca gctaattttt gtatttttag tagacatggg gtttcaccat 180

gttgccagg ctggtctcaa actcctgacc ttgggatcca cccaccttg cctcctaaag 240
 tgctgggatt acaggcatga gacaccacgc ctggccggtg gacccaaatc ttaaagcaca 300
 tactctactc tagtggttcc taaactttag catgcatcag aatcatttgt agactttgtt 360
 aaaacacaga gttttggtta cactcctacg gttttttaat caagtaggtc tggggtggag 420
 gctgacagct agagtttcta acaagttccc aagcccaact attgctggtc canaaacccc 480
 actttgagaa ccactgggct ancnccaaca gnggtcaata gnttacnggg ttat 534

<210> 10193

<211> 486

<212> DNA

<213> Homo sapiens

<400> 10193

ganacagagt ctagctctat tgccccaggc tggagtgcag ngggacgac tcggctcact 60
 gcaacctntg cctcctgggt tcaagegatt ctctgcctt agcctcctga gtagctggga 120
 ttacaggtgc cgcaccagn gtccggataa tttttggatt tttagtaaag atggggnatc 180
 atcaaattgg ncaggctggt ctggaattcc tgacctcagg ngatccacct gcctcggcct 240
 cccaaagtgc tggggttaca ggcatgagcc actgcaccta gccagtcagg gcacttttaa 300
 aagcaaaggt cctattcaaa tgtaagggt ctttatatgc aaagaggtta cacgaagctg 360
 cagcagntag attaagagcc aacacatcct tntntgcccc tgggacacat gacnttaac 420
 aaactccaca aacttttctt ttatcaccca anaatgaanc ctggtatgct taaaaaccng 480
 ggngaa 486

<210> 10194

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10194

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 acctctgcct ccaacgttca agcaattctc gtgcctcagc ctcttgagta gctgggatta 120
 caggcgtgcg tcaccacacc cggctagttt ttgtattttt agtagagatg ggggtttcac 180
 cacgttggcc aggctgggtc cgaactcctg gcctcaagt atctgcccgt cttggcctcc 240
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 aggcatata tactgtcaag ttacacgac acaattcact taactatgat gaattatgaa 360
 gttaaagtgc aagctcggtg aagtgtcagc attttctatg cgaatgacct atttgcagaa 420
 aagcacacaa tggcaaaaca agtggttaat nacaaaaacc actnacaaga gtgaatatcn 480
 tntaggaag tttcacntaa aaaaattaac cgnntan 517

<210> 10195

<211> 535

<212> DNA

<213> Homo sapiens

<400> 10195

cctatgaaaa tgtttttaat tttcatcttt tggaaatata tttttcattt ttatttccac 60
 catacaaaaa tgtgaaatat ctaacaatga tctatctgaa gcgggtggag caaagcagcg 120
 ccatgagcgt ttgtcggtgc tgtgatctgt ttcaacggag aatgggctgg gacatgttgt 180
 agatttgcac gatttcacac acacacacac acacacacac acacacacac acacacacag 240
 acacgtacgc acacacgtg ccgtaccccg agaccgccat ccaaacaac gaacagagac 300
 tctggaaagt gaacacagcg ccacgcataa gaacagaagt taaccttttt actcgtacat 360
 ccccatgag aaactcacgt ctaggagaa aggaactcta cataaatatg cccaaaggcc 420
 agggcatacg gcaagccctc tcatgggtgg gcatgagtgg acatcttnt gaaggaagga 480
 caagcttgaa agcgcattgt ttcangcagc tntngnggga agcagggang nccaa 535

<210> 10196

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10196

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agagattcag ggtgccattt ttatttccca tggagctgag gacctgagca caggcagcca 60
ccagggctgc tcagaccctc ccgaccttca ggggtgggag tggttttgga gttctgatct 120
tgggtaggca ggcctgtcat attgccagaa atacaggcat agaggcaaga gagagaagaa 180
gaggagaaga agatagcagg aagtaaaggg gacaatgaag agagctaagg gactccttcc 240
ttcttctctc tggcactgtc tccttctctt ttctgcctcc acaccaatct cttggccacc 300
agctggaatg tcaaacagtg gatggtgaca gcaggcaggg aaggggccag ctgcaaggca 360
ggcccaggca ggaggccggc agcaggagga acaggatgac acccttggga agcagttggt 420
gatgggcagg gcacacagat ggccctgctg anggcttttt cgtacgaang gtcttccatc 480
tccaaggcna cacgtgaagt ctntccaac tgggcattgg gcttgactgc cgccccggat 540
cttcaagang gncaaaaa 558

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<210> 10197

<211> 509

<212> DNA

<213> Homo sapiens

<400> 10197

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gcaacacaag tcaatcttta ttgaaaactg cagtattaat acataacaat tcttgttaca 60
ataaacgtgc ttttgagatt tttaaactcg agctcatctc atcagattgc ataaaaaatt 120
aaaatagtat caattgacac ctaactgaac tggctcagga tggaaattcc attccttggc 180
atggatacgt aagttcaatg cagaggtgag ggatgccttt aacactggaa gacaatgctg 240
acttagctta aaaaaagtac cgagagaacg gtgtaaaaaa cggatattta aaatcatttt 300
taaaaaaaca aaaaggaacc gtttcttctt tagttacaat ccatgaggct ctctagggcc 360
tctccgtgtg gccagcacag caaccctgct aggagcacia acggctggcc tgagatctgg 420
cccagctgcc ttgccactg gtctgcatag ggactcatgg gcacagcctg tgggtangan 480
gganaccctg ncatgncnan cctggggagc 509

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<210> 10198

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10198

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agtagacaca gggctcttgct atgttgccaa ggctagtctc aaactcctgg cttcaaagga   60
ccttcccata tcaacctccc aagcaaccag cattacagag atgagcagct gtgcctggct  120
gaattctttt tttttttttt ttttttgaga cagggtctca atccgtctcc caggctggag  180
tgcaatggca caatctcagc tcaactgcaac ctccacctcc tgggttcaag tgattttcct  240
gcctcagcct ccctagtagt tgggattaca ggcactcgcc accgcaacca gctaactttt  300
gtattttag tagagacagg gtttcaccac gttggccagg ctggtctcaa actcctgacc  360
tcaggatgac tgcctgcctc ggctcccaa agtgctgaga ttccggcgtg agccactgac  420
ccggcctgaa ttcatttttg gataaaaatc caaaggagtt tataatgcct gcaataaaaa  480
tcattentat nccttttaac atcttantgg ccaaacacat nattngcaat taaaaataac  540
cccnaaaaaa aatt                                                    554
    
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<210> 10199

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10199

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gacacagagt cttgctctgt caccagggt ggagtgcagn ggcacaatct cagctcactg   60
caacctccac ctctgggtt caagcattc tctgccgca gcctcctgag tagctgggat  120
tacagggtgc tgccaccaca cctggctatt ttttttttaa tgagactgag tttcactctt  180
gttgcccagg ctgggatgca atgacgtgat cttggctcac tgcaacctnt gcctcccggg  240
ttcaagcaat tctcctgcct cagtctcctg agtagctgat attacaggca tgtgccacca  300
    
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tgcccagcta acttttttgt atttttagta naaacggggt ttctccatgt tggtcaggct 360
 ggtctcaaac tcttgacctc aggtgatcca cccacctcag cctcccaaag tgctgggatt 420
 acagacgtga gccactgcgc ctggccctaa tttttggatt tttagtanaa acanggggtc 480
 actatgttgg ccaagctggc tttnnaacttc tgacctcagg ggaacnggtt actttgccn 539

<210> 10200

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10200

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 atcacaactc acacaatgct atattcaa atgccaag tccaacata ttcatttcat 120
 ttgcaagtta attcctaaaa gatcagagca gagtgataca caagtttatt aacacagact 180
 acaacgtcaa tgaagcctcc tggcattgtc ggaaatagaa aacatgtata aaaatcttcg 240
 aaatgcaggt taaaatgcaa atccaagtga aaggaaaaag cactactgtg aagcctaacg 300
 gcaattat tcccttcaaag gaggtttgtg tccagctgga gagaaggcct ggtggacaga 360
 agacaaaagga aggcaaaatt cctaaggag aaattcaaaa aaatgatggg ggtgcttgcc 420
 ctctgctggg cctctttgca gcgacttcaa cttaatgcat aacgccgtaa ggttgtaaga 480
 aaagcaactt ttggcttgat cttaaaaaag ctgatttctt ttggcagcat attncggnga 540
 gaactgn 547

<210> 10201

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10201

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agcctccacc tcctgggttc aagcaattct ccctgcctca gcctctcaag tacctgggat 120
 tacaggcaca tgctaccatg cctggctaata ttttttattt ttggtagaga cagggtttca 180
 ccatgttggc caggctggtc tcaaactcct gacctcaggt gatccgcctg actcagcctc 240
 ccaaagtgtt gggattacag gcgtgagcca ccgcacctgg cctgggtccat ttccttttaa 300
 ccctgccttt ccaatgagaa cctgggagat gattaaaata ttccatttta tatgtacact 360
 gcactttaaa aattttttta atttaacttt ttgagacaag ggctccctct gttgcccagg 420
 ctggagtga gttggcacaag tcttttgtca ctgcagcctc aaccttctgg actcaagcaa 480
 tccttccatc tnaagcttcc aagtagctgg gctactgggc acatggccca aaaccagtta 540
 attctgnatt tt 552

<210> 10202

<211> 577

<212> DNA

<213> Homo sapiens

<400> 10202

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 gctttgaagc acagcacaca aaatgaaaca atttaaaacc cttcataaa aatgggaaaa 120
 attcccaggc caaaggaaaa aaaaagcctt cacagaaaga gactgacact cgactcccc 180
 cctgctgagg tgtggccagt gagtctgggt gtgagctgcc acctgacagc cagctctgag 240
 gtatcaaagg agctccgagt gcaagttgaa gacttcagca agccagcccc cggccccccac 300
 acccgttcat aggcagtcgg aatgcagatc tcggtggcag gtgggctctt gcacaagtcc 360
 agagtataa aacaatcaca gatgactaaa tgccangac tgggtgnaag caggtagctg 420
 cttgcagctn gggcacttct gncnttatta gacctggtgg naccatgacg tgaggagAAC 480
 ggagcacagt tccttccgng cttctgccgg gcttggttaag gngngcatgg ttgancctgg 540
 caagcatttg gattttggag tctcactctt aggccaa 577

<210> 10203

<211> 590

<212> DNA

<213> Homo sapiens

<400> 10203

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ctctttcttt ctctctctcc ttctctctct ctcttttatt tgtttattta tttatttttt 60
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ccctgattca caatggtacc ccggtaccct aaaccagccc tgggttcctt atctctgtat 240
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accacactc tgcacccaga gtcatagatt cacagagcta ttgccttaat ggatcatcct 420
cacacctagt tcacaagatc aacgacaggc tggcagctta aagaattccc gggggaacaa 480
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<210> 10204

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10204

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aaactagatt tttattttta ttatatitcc atgtgaagac atcacccaaa tgtcagcgga 60
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cccagaaggt aataagcatt atcagtgagt gagagctcta ggcacaaaat aagtttctcat 180
tcagaaagtg gacagagata tgaagcagtg aaacatatag ctttaaaaac tggaaatcat 240
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gtagaatcag gcctgattaa gtaatattta tgacttacag ataaaattca aaaataaaaa 360
tgaaaactct tctggccctt gaagagatag aaaactatat ttttttcctt gnatggccca 420
gagattatca gtattcatcc ctaaggctgc ttaaaaaaag gtattttnaa tcggctttct 480

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ggtctgcnc tttacatagc aaacgggtta tatggcctct tgctgagtga aaggangata 540
attcctgctn aatgaaagaa ctccatttcc 570

<210> 10205

<211> 469

<212> DNA

<213> Homo sapiens

<400> 10205

acaattaggg tcatttaact atttaattgc tttttgagat tattgctgaa attaggaagg 60
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attttccaag tataaaactc gtaatattaa aagtacata gcagtatatt cacatgacta 180
cttaagtcta atgcagaaac aagacagtac agtttttgca gaggccgatg tgacatctgc 240
atgcaacatg atactattaa gtgtctctac ccacctctgc tacagagtag ctgctatatg 300
cacacataca caaaaataca caatgaaaag cctacaaaag gtgtaagtc caactaaggg 360
tcttaaatgg aaaattaaag gnggtccag tangnccctt tggaaaaccc cttttccctn 420
ggcccatggt gnccagccn aaaggaacca agngctcggg gctgggtct 469

<210> 10206

<211> 285

<212> DNA

<213> Homo sapiens

<400> 10206

canggtaagg cttttgaaag atttatngaa ataaattatc tttgcctaaa aatttacctg 60
tcaccttttt caattacttt tcaacattct aaaaactttc cgttatgtaa aatncattta 120
aactttgcca ataatingtag ataatacngg attcttccca aanggactac cacaaaacaa 180
agctttcaaa gagtaaaaaa aaaaaaaaaa aaaangtaat ccaanggggc ataaaactgn 240
ggtctgtanc ctatgacttc anggttcaaa tccttaangt taanc 285

<210> 10207

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10207

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cctggtgcag ccagatgttc taacttttgg acaaatgagc gtggtcagta atgtacaata 60
actcttgagt ctgttacttt ggcctagcta agcccatctg gccctcgggc atcctgcaag 120
atgacagaca gaagagcaag ggcactatca gaaatggaac aggctgcccc ctactcctcc 180
cagcctctac cagtacacag agacagactg gagatagagc attcgcagcc agttggcatc 240
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acgtccagag atgatggagg aattgcatca gcatcatatg cncagtgaaa nggtggcttt 480
ttgtccaaaa aaggccatit ccgggcctgg tacatggcct aagggcctgg cggaagtitt 540
aaaagctggc ttcaaanagn 560
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<210> 10208

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10208

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gaaggacagg gttaccgagt ttatttcttg gtgcctccaa gagctcatgg aaaagcagca 60
cagtgaacaa caagcaacag tggtcagtaa atgtatatga ctcaacacat tgccacagtc 120
tcagcttggc tgtgtggtac atgctgccaa gggtcgggtg ccaagagaga gcagaatgaa 180
gccaggctcc caaggaagtg agggcccaaa ataggagtg tgggtgatga ggggtggagtt 240
caaatccaga tgtcagagct acaatcgccc ccagggtagc ggagctcatg ggcaagggct 300
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gggccaaggg gctccttccc gaagtcacc aggaagtgg ggttcaactt cagccctcct 360
 ttactgngt ctacatcaac ctgcagcatc acagagcctt cctgatgaga tcagggtaaa 420
 actgcttggc ccaagccttg tcaacgacct ggtgatgtaa aagcctttcc atccagctga 480
 actggacatt ttaagggtt caancccccg ttttccttgg ncccttaggg ctttggttgg 540
 acntttatt 549

<210> 10209

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10209

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 attacctgtt gcgtataaga gaggcaacat agatccaaac agacaaaaca tttttgggg 180
 atgggtgtat gtatacagct aaagcaaatt caacattagg aacatcaata ttatgtactc 240
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 atccagagaa cctgtagtct cccagctgtt ttagcagttc tgctctgtgg catcttctac 360
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 cctattcccc cgagtcanat ggcgtggnc tncagtcctg actgatcttt aacctgctgg 480
 aggacttgn tactatnggc ctatnggggg ctaagggtcc tnggttctat acattctggc 540
 tnggaaccgt tnt 553

<210> 10210

<211> 505

<212> DNA

<213> Homo sapiens

<400> 10210

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atacactggg atcaagatgg tatcggtta taacattcct cttagcagcg gnggttngt 180
tcccagaggg cagaatatca gtatgatgaa tttctcggca gttatattta gacaaagaag 240
gagtattatc tggactgttt atataattca angttccctt aacgcttagc tttcggctaa 300
attctggcaa ctttttcatt ttcattgaaa gtttcctcac agttcgtgga gattttattt 360
tatctggcaa tgaccaatta attgaactgc ctttttcaca gggctaggat ttggaaaaaa 420
atgggtccat aattccaatt cagnctatt tgnancancc ngaanccaaa anccggcaaa 480
ggggattcac atgggactgg cctcc 505

<210> 10211

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10211

gagatggagt ctgctctgt caccaggtt ggagtgcagt ggcgtgatct cagctcactg 60
caagctctgc ctcccgggtc cagccattc tctgcctca gcctcccag cagccgggac 120
cacaggcgcc cgccaccatg cccaactaat tttttgcatt tttagtaaag acagggtttc 180
accatgtag ccaggatggg ctgcatctc tgacctcatg atccacctac ctgacctcc 240
caaagtgtg ggattacagg cgtgagccac catgccacgc ataaaattgc taatttttga 300
cataaggcaa tttctttctt tttttgttg agatggagtc tcgtcagtc acccaggctg 360
gagtacagt gtgcgatctc agctcactgc aagctctgcc tcccagggtc acgcatgct 420
cctgcttcag cctccaagta gctgggacca caggcgcccg gcancgggcc cagctatttt 480
ttttggaatt taggnaaaac ggggcctaac atcttncctg gaagggnntnn anttctgacc 540

<210> 10212

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10212

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agctgggatt acagggaccg tgccaccatg cctggctaata tttgtattt ttagtagaga 180
tggggtttta ccatgtttggc caggctggtc aagaactcct gatctcaggt tatctgtgtt 240
gcccgtcaca gcagccacta gccacatgtg gctactgggt cctgaaaatg tgggtggcaa 300
aacatacacc caattttgaa tacttaatac aaaaaagagt acaaaatata taatgatgtt 360
aattatatgt tgaaataact tttagaaatt tgtgttaaaa tatatagtga agattaatct 420
cacctttttt tttttctttg gtgagacagg gtctactgtc gccaaagctgg antgcaatgg 480
cgtgaacctt gnttactgga accctnaact tacangntta aagggaanct tccccntaa 539

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<210> 10213

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10213

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tacaacctca aattcctggg ctcaagtgat ccttctgcct cagccttcca aagtgtctggg 120
attataggca tgaggccact gcgcccagcc tcgttagtca tttatctacc aaatacatgg 180
aaaactcaca gaatcagagg gtcttatcac caaatctatg tttgctttgc aaaaggtcag 240
gtcctgcatt ttcaaaatgt tccttgtgct ctgttatgct ttatatttca tagcacagca 300
acgccccctt cacaacgact ggtgatcatg ttaccaatct ctgtccatgt atctgaatga 360
gggttataaa cttcaactga gtccaaggta cctggagcca aaaaatcatg gctggaagat 420
cgacctccag aaacatacag aagaccattg actgccacaa cacacatgcc tgctctangc 480
actttcattg angcaacttn aaccacttt tnccttttaa aaggaaattt ttcnccggt 540
tggaan 547

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<210> 10214

<211> 542

<212> DNA

<213> Homo sapiens

<400> 10214

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caggaaaaaa ttatttaata gtataacaaa atgcaaaata aagtacccaa gttacaaaac   60
ataaattect ttggttcatt atcacaccac tatTTTTacc ttccacatag ctacagacat  120
cacaccctca aagtgaagtc aaactgtccc cctcatactg aagatgtcat gccaaaacca  180
tcacataccc cactgttcag tgaaactgtt ggcaacttac atggaacaga gctgtggggt  240
aggaaaaagg gaaaagggtt gcgttaaaaa aaatggggag actctacaca tgcagaacaa  300
gttagtggga gggagtgtc tgctgggtca acacgccatg aaccacaccc ctattcgtgc  360
tacatgaggc tgagtccttg ctacaaccac acagaaatac agacaatcaa gtgaacctga  420
gcacccccag ggataacaga agaaaaatac agagaagcag aggagagaaa gaatggcagc  480
aagangcaga tcacagaatc cangggacac ctagtncnaa cctggtttac cnatngggna  540
ag                                                                    542

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<210> 10215

<211> 529

<212> DNA

<213> Homo sapiens

<400> 10215

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ganaaggagt tttgctgttg ttgcctaggc tggagtgcaa tggcacaatc tcagctcact   60
gcaacctccg cctcccggtt tcaagccatt ctctgcctc agcctcccga gtagctggga  120
ttacaggcat gcaccaccag gccagctaa tttttgtatt tttagtagag acggggtttc  180
tccatgttgg tcaggctggt ctccaactcc tgacctcagg tgatctgcct gcctcagcct  240
cccaaagtgc tgggattaca ggcatgagcc accacagcca ggctatTTTT ggaattttct  300

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aaagcacaaa acacataatg aaaatacagc ttcaaatttc cttccacata tattcttgag 360
 actaattaca aagttaaagt gaagggtgtt tttttgtttc cagagcatct tttttagaga 420
 gaagtaggta tagatggagt tgctatacat aaagcactga aaagnggctc tttcaggatn 480
 ggaaacaaca ntttccttta aaataacct ntggggggcca aaanaaagn 529

<210> 10216

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10216

caattattaa atgtttggca ctttattaat taaataagct ccaaaattaa ttacatacaa 60
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 cagctctgag gccgaggctg gcgtcctgtg gcagagggcc tgtggattgc catgctcgct 180
 cccaggggtg gctcaacagg gacacaggtc tactccttcc acatcgggtt tccggaacaa 240
 caactgaact ctcattcatt accatcccat tcattacat tttttttac atacacgaaa 300
 cacaccgcaa tgtatagact aataagccaa gagctttatt gatgcagcag gcactttaca 360
 atgagcccaa gagtgtccac cttctctggg aagacaggat gtctgtacaa actcttgggt 420
 tttttccac ttcaaaaaca caagctttcc cgtttaccac agcccttgga tctgnacctg 480
 gccaaacat tccttcccca aggcacacag ggacctttgg accaanacca gncngcaac 540
 ttgnaaaacc ggna 554

<210> 10217

<211> 537

<212> DNA

<213> Homo sapiens

<400> 10217

gagacggagt ctcactngt agcccaagct ggagtacagt ggtgtggctc actgcaacct 60

ctgtctctgg ggctcaagcg attctcatgc ctccagcctcc caagtagctg ggactacagg 120
 cttngnctac catgtccagc taatatatat atattttttt atttttagtag anacgggggtt 180
 tcaccatggt gccccagggng gtctcgaact cctgagctca ggagatcagc ccgactcggc 240
 ctcccanagt gctgggatta ccagcatgag caaccatgcc cggcctaatt taagtttttt 300
 ttaatngat gttgaagatg cttcagaaat gactagtcac tctcacatga ctataccact 360
 gctgcatgag gcataaggta ccttccctgn cctgnacacc acaacgcacc acaactgaca 420
 cgtcgtgggg cccttcacag acacctgtgg atggaatgaa tgaagggcaa ccattacatc 480
 ccnggacaga accttggaan ctgggcattg tnccaaggcc cggccggaaa aatggct 537

<210> 10218

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10218

gaaacggagt ctcatctgt caccaggt ggagtgcagt ggtgtgatct cggctcactg 60
 caacctccac ctcccaggt caagcgattc tcctgcctca gcctcccagagg tggctgggac 120
 tacagacatg taccaccaca cctagctaatt gtttgtattt ttttagtagat atggtgtttt 180
 actatgtttg ccaggttgt ctttaactcc cgacggaccc caagtgatct gatcacctcg 240
 gcctcctaaa gtgctgggat tacaggtgtg agtcaccgcg cccagcctat gtatttttta 300
 tttttatttt tttgttgag agatggtgag gatgtcttgc tttgttacc aggttgggtct 360
 tgaatttggt gctttaagt atcctccac cttggcctcc aaagtgcctg ggttacaggc 420
 gtaagccaac gtgcctggcc tgnatttatt ggaattcctt tttncattct catcttaatg 480
 cattttccaa atngagaagg acatccttct ggcttacact ttnaaaaatt nccgttttca 540
 tggn 544

<210> 10219

<211> 512

<212> DNA

<213> Homo sapiens

<400> 10219

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gtggtattaa aacatatatt tatattataa atttccattc tgaaaagcag atcaaaatga 60
cactggacca tccagtcagt tatggagtaa tgggcttcct ccaaagagaa ctgacttggc 120
agaaatttag gttggttaga atgtgattaa catggagtaa acgagatcag gttgtcagta 180
taattttcat aaggcttcta cccactccag ttgtaaggaa tagtactgag ggaactccaa 240
cagaatgtct tagaaggatg cttctcagag acaaagggtc tctaagtta actcttgacc 300
cctcttctcc ttacctaaag cttggggaag aaaataaata ttttaattttt aactattcag 360
agctttgggc acattataat aattaaatat tctggagggt aaatttctga cccttggctt 420
ataaattttc taacntacnt tttaaaaagg nntcaatggc ncctttttca gtaggncccc 480
cttgaaattt aaacctnggt ctttcatatt tt 512
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<210> 10220

<211> 520

<212> DNA

<213> Homo sapiens

<400> 10220

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agcaattatg agagcaaata tttattatgt tccagacact aaatcgatgc attacattta 60
gagacactta gttttacaca gtgatcttaa tagttaggta cagtcttaa tcccaattta 120
tatttcagga aaaagaaact gagaaagtat tcatcatgat tagaaaacaa caggcaaggt 180
ttgagctcaa atactctgga cataaaatct tcactctgaa tacacatatt gctcatattt 240
tcctctcctt gattccttga tgtacctggg gtatcctgag caacacactg acataccctc 300
caagaacctt tagttgatgt tgggtggtgt catgggggtg gttcctatgg actacctagg 360
tagcatggat ggtggctaac aggctttggg cctcttcaca tcagtataa agtgaaacat 420
ggataaatgg gaaggcaagg atgttatacc catactgncg ggctttagga gggattaggn 480
aactttctct ggaaatntga aaaagaggna angngtnaat 520
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<210> 10221

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10221

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ccaggaaaca gaaaatgtct ttggtctggt attaatatca aaagaattta actttaaaac   60
tgatcccaat aagcatggcc cttacacagt tcatgaccaa tatttagtta tatgaaaatg  120
gttcattctc ttctagaatc taatccagtg cagtcactctg gtgaaagact ggaagtcaga  180
agacttttca aaagcttctc actgaaatgg taatttggtg acacgggata aacagaattt  240
tgcataaata gcagaccttt agtcactgaa taccaccatta aacagtactg ctggaccatg  300
atacttatai ctgggagatg acttagtttt aaatttttta tgcagtttct tttcttgaag  360
gaaaaacttc cagacttcag aattttggaa gctgaacgat gagcaggttt ttcataatgt  420
gctgctcaga catttttctt atttctcaga ctttgcagtt cttttcttag gtgctttaga  480
gcacctaaaa tatcagcttg ctgggggggtc attcnggggt tcttgagagt ccngaccgga  540
aagtctggtt gg                                     552
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<210> 10222

<211> 286

<212> DNA

<213> Homo sapiens

<400> 10222

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cccaagagcc aagcagactt tatttctgca gcaatctctg ctggtcaggg tgcctgcact   60
cctntacca ctgcccttca tggctgctgc agtggccgca gctgtggccc atggccagcc  120
acactgtcaa ggttcagcga tgctgcagtc atagcanaag ttgaagttgg tgggggggtg  180
gggcacaggg ggtggccgct cggggatggg cacgttctcc agctccagca gacgcagntn  240
ggnctccatg gtcagcagnt gntccaggtc cagccngtc tgntcg                      286
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<210> 10223

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10223

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aaagaatgtg ctgcttatat gcaatgggct tattattcct gttgttaatt ggaattggta 60
tacagacatt ttccaatcct tcaggtttca actggcaaat gccagcagac ataccacag 120
agccagagct cctcaggctc ctccacgtcc aacggcgtct cacagtcctg aggatgagga 180
cctgggtgag gggagcacgg gagacacagc catcaaggca tccacctcca ggacagacac 240
cagccaagaa cccctcagg gcaaggcctc tcacaagtcc aactccacgg attccaccgt 300
aagtgtgtc aactggatgc gcatttaca aatctgagtt ttctcaaaga agctgaagct 360
ttcgtgtcc tcagtgttc tggactccca gcgccgtacc actccctgcc agccacacag 420
ggggacccac aggaagcagg ccttncctgt ggccggccnt gctgctatcc ggcttccttc 480
tngcaancg tctgaccgg gaaaggntga gcccaaccant ggatcctggc tnga 534

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<210> 10224

<211> 488

<212> DNA

<213> Homo sapiens

<400> 10224

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cggagggcag aacaaattca gactttattg tcaggagag gaaaaagggg agggccgtgg 60
gtggggggcc tgggttgcta cattgtcaag cagaaagagt tgatgggaag gggaagacca 120
gtgtaggcca gacccctccc gggtcggcgg ctgaagggtt gacgatacgg aaaccacgga 180
gtcgggggtg ggggagaggt gtcacacccc cgcccagatt gtgcagtgga ggtgactggt 240
gggaggggac agccatgagg tctaggaact tgaatcgggg aggctacaga ctcggcgaat 300
cctgcgaagg ggaagggcgg nggcgaggct tctattgctt tttgctcaca gttttgcgga 360
aggcgaggcg gnggtgggct tggactggac accccttgcc cccctcggtta ccccttgggc 420

```

natggtgctg gtgaaaagaa tggaacccgg acttgganga anaaagccaa nggaaagnct 480
attgnggn 488

<210> 10225

<211> 471

<212> DNA

<213> Homo sapiens

<400> 10225

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acgaagaaaa acttaaatag ggccttcaga gatccacac actacaaaga ttctgccaaag 120
ccataagata agtgtgaagc ccagtatatg tccagctttt ctctcagga catcttcagt 180
gtttcttctc ttttaaacac cacatcaggt tctagccaca gacttgtgtt ttgggtgtgc 240
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ctaacggccg cccttcagga tcacagatgt gcttgggtgtt ggtggcaaag catggcactt 360
gtgtgcagtg atgagaagca gcacacggca aggctgagcc cttatcagc aggcctccgt 420
anagcgtgtc tgcgttgnca gctgccaaang gncntantgg ntggccgacc c 471

<210> 10226

<211> 530

<212> DNA

<213> Homo sapiens

<400> 10226

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caggacttgg aaaaatcata ttctggaaag cagctttgat agtagccaaa gagatgtctt 120
cccaaaaagc cactaaatgt tgtaaagtta agggaagagg agacttagac ttcattgtgt 180
tatgcatgga catttcaaaa gtggtctcgg ttttcccatc ctacatttt tcatgcagag 240
gtggttcctt aagcatagac aataccttgt ttttgttgat gctacccatc ttagatatat 300

ctggtccatg ggggtgcaata ttaaacadat tcagtgcaga tgatatttct aatgaatgtc 360
tatttttttaa cttggtttct ttttctctg taggttggtg gctattttaa ctactcctta 420
taggagcatg ttctttggaa agtcaggatg aaactttagg aaagaagaac caagccattg 480
catcatgtct atgccttcat gccngaggaa ggaagcaaac ccagttntgn 530

<210> 10227

<211> 527

<212> DNA

<213> Homo sapiens

<400> 10227

attcaacaaa agccttttat tcattcaaaa attaaccatt gggtttattc cgcagatatt 60
aaaaaaaaa aaaaaaaaaa gaggggggca aggcttccca tcacagngcc ctttaagttaa 120
ttcacttgct atccagggat ggcctagcag aggggtgtct gggaaacgct gccagaaatg 180
tggtggccca gggcctntga ggactcacag cccctcctc gcctccccgc tccagcctec 240
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cagggggcgc gccgcgcttc cttagctccc ttaaaattaa atgctgaaac cgcgctggga 360
acagggtgac tttccgcctg gcgggtgggc aatggaggct tttccagag acaagcctgc 420
ctntccagg aanggatccc aggcattccg accttcccaa cnaaccctt tcgnaaaaac 480
ccaagttct ggaaccagg ggcncctgtt taggaacggc ttgtaaa 527

<210> 10228

<211> 533

<212> DNA

<213> Homo sapiens

<400> 10228

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gcaagctctg cctcccagg tcaagccatt cttctgcctc agcctcccca gtagctggga 120

ctacaggcgc ccgccaccac gcctggctaa ttttttgtat tttctttagt agagacgggg 180
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 tatggggaac aatctgaagt aaagttgagc tctacctagt tagggctaaa tggaactgtt 360
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 catcaaaaat aagatagggg ctgggattgg gggttacacc tataatccta acatttgtgg 480
 anggccaana tggaagtg cctgaaggcc aanaagttna agaaccanct ggg 533

<210> 10229

<211> 535

<212> DNA

<213> Homo sapiens

<400> 10229

aagggcagaa gcactttaat cctagaggga gggtagaggca ctgttgaaaa gagaagcaaa 60
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 tcaatcattt tctacttctc ccagggcact cagacaaaat cagtgcagg tatatggaag 180
 tacagatgta ctgnatcaga ctagtggagg tgaaaagggtt tctgcagtat aattaaccag 240
 ttaatatgca gcatgaaagg gaaaagtgga cttactttg gcacctgcaa acgtaaaaag 300
 tgggagtaaa gagagaagga aatatttact agtgagtact ttacggtgag gcaaaaagta 360
 gtatccgttc cttttacca agacactgnc cactgnccac tggccacagg ngactcaa 420
 caaaccaga accaccaccc cttcattctt ctcttcatct tattcagaac aantattatg 480
 ctantancca tgactaagtc cctggggaaa ctnttcaaaa gaattggctt tnggt 535

<210> 10230

<211> 257

<212> DNA

<213> Homo sapiens

<400> 10230

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aagacagagt ctcgctccgt taccaggct ggagtgcagt ggtgccatct cggctcactg 60
caacctccgc ctcccagggt caagtgattc tcagcctcct gagtagctgg gcctacaggc 120
gtgtgccacc atgtccggct aatttttgta ctgtagtag agatgcggtt tcaccacata 180
ggccaggctg gtcttganc tctgacctca ngtgatctgc ctgccttngc ctcccaangt 240
gctgggatta caggcnn 257
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<210> 10231

<211> 522

<212> DNA

<213> Homo sapiens

<400> 10231

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aatccaaaca ccaacttgaa caagagactt tcagttttta aacattttta gngggaaacc 60
ctgcctgtca atgcatcatt attgcccttc ttgattgctg ncttggtaga tgattcactg 120
cccccccta naagaggact atgtgtcatc tgccctgccc atgacctcag ctttggccac 180
atgacttgng gtaccagtct ntacagaaga aggatgcctc cttatatgca aactcagggtg 240
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agcataagct tanagcctat gaatggtttg ccaggtttgc ctttcctcct tcacccttcc 360
tggttatagg acagaagaca ggaaggagca gaactatngc agacccaggt tgacacacag 420
nacaagcaag caataagcct tgctgntgca ccctgggggt ttgctttaca gnntaaccta 480
gtttaaaaga ctggggaccgt ctttacatgg gatnccccaa ct 522
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<210> 10232

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10232

caattgcaca gatatttatt ggggtggcacc atgcaagtta aacaactctt tgcaaggcac 60
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 cagaacaatg gccaccaggg tttaggcatg ctctcctccc acctggaggc tcccactgac 180
 atctgaattc ttctttccac aggttgcctt ggattcagtg acctttcttt ggagattttg 240
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 tttcatcttg attttctttc tcttctttag actcctttct tgatgtcatg actaattcct 360
 ctagatcttt attttttata agggtatgat gaagtttctc atatgcatct tcaaacttct 420
 cctctgcctg ctggctctat tttcaacctc ctgatatgga agagaagacc cncnaaattg 480
 aaaggggtgn aaaaagattt ttggatttgg aactcaattt ntaaaanggc nngggaat 538

<210> 10233

<211> 536

<212> DNA

<213> Homo sapiens

<400> 10233

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 ttacaggcat gcgccaccac atccagctaa ttttgtatit ttagtagaga cagggtttct 180
 ccatgttggc caggctagtc tcgaactgct gaccttaggt gatccgcctg cctcagcctc 240
 ccagagtgtt gggattacag gcgtgagcca ccgtgcctgg caggaccggt ggtttttaat 300
 cttcgagtct caatgcctgt ggagaatttg acgaaagcta tgggtatcta cccaaattaa 360
 catccacgta cacaaaaatt tgggtgtacaa tgctgggagt agcggggagg gggagtagca 420
 cagattccca ggctttgggg atgggggtga agatttatga acncaggttg gtttnaatcc 480
 aaccagaatc ctaaggtttt ttcccatggt tgaggggggt ttaatggggg aatgna 536

<210> 10234

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10234

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atttctgcaa ctccaatgca aaatgatagt ccatgtgttc tggcatatcc cataccggtg 180
ccaggagacc acacttctca cagggcactt ggctctcagc agctagaaga cttggatttg 240
gggttgcttt ctgagtcacc tccagcacag atttgggaagc tgaagaggcg tgcattgctt 300
ggctgttggt ggccaaatcc atctctgcag gagttgcttt agaggattct tctagcttcg 360
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ctttacagtt ggaccatggg ttttggtggg gggaagaaac tgaagaatta ttaaactggt 480
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gttgnan 548

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<210> 10235

<211> 530

<212> DNA

<213> Homo sapiens

<400> 10235

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gccctctgag aaataattgt ttaattgtta ttatatTTTT tttccaagac agtcttcac 60
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gctcaagcga ttttcatgcc tcancctccc aagatgctag gattacaagt gtgtgccacc 180
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ggcattgatg tgctgggtgg nctcgctggc ctttttncct cggtcattta agaagggatt 480
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<210> 10236

<211> 511

<212> DNA

<213> Homo sapiens

<400> 10236

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gtttccactg gtggaatgtc gtactaaaac atcagaggct cataaaataa ttacatagtt 180
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caaggtggtt canagcatct gaccactgc ttaatcaagc tctcctatat aattaaaggt 300
tactaggtgg ctttgactaa aattatgaaa agggacggaa atgtcttggt gagacacagt 360
atgaatgata gagcaagact gcttcacgaa aatgtaaatg atcaagttat tttttcccaa 420
ggtttaggaa tccctgaagg gtctgaactt ntaaattgcta acntgnccag gccccattta 480
ccntccgggn cccaaggcnt tcctancata t 511
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<210> 10237

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10237

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ctaggaggca gaccacggaa gcaagtttgg aggggacagt ccctgacaga ggctagagca 180
tcatccaagt ggaggagatg agacagaggg aaggagagg gaggcctaag gatttcccca 240
gagggggagg tgcattgactg ggcagggaaa gcagcctgct cgcctggcgg ctgccaccat 300
ctctctcatc ggtgggccct cagaccttgc ccatttgctt agggagacaa tgactggcca 360
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cagacacacc cccacacaca tttccagggt agacagaagg taaaaaaca aggtggttgc 420
 tcccagcact gcctggncctg ggagctccaa ctatcagagt ccagtgaaca agccattatn 480
 ggcaagnttg gnccgtaaag gtggctggtg gtgnngaata cttgggtggg taaccaatga 540
 aaanccgn 548

<210> 10238

<211> 472

<212> DNA

<213> Homo sapiens

<400> 10238

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 cttgtccgtg ccggggccct cgcccgcagc accgcacgtt cttttagga gcagaacccg 180
 aaactcagag cacagcttgc cctgataact gtcttcccag ctggcagccc tctagaagat 240
 gtgggaaatg acacattcct gtccagacac aagccacagt cacccccctc ccgagggcgt 300
 ccacggcctg agggaccggt ctccattcag cagagccgca gcgctcaggt cctctcggca 360
 acccacgatac acggcccacg tggctctgcc catgcccccg ctgccacgcc cctgntgcc 420
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<210> 10239

<211> 536

<212> DNA

<213> Homo sapiens

<400> 10239

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 aaacagattg tggggctcta gactccggac agcaccaaaa attcaagttg catatgaagt 180

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 actccccaga gtgtatagag gcccctgtat attcaatgat gaccacaaag aatcaaacag 300
 aaatcagaaa tgacagtcca tggctctatg gtttttaatg aatagtttgn gtagattttc 360
 ccatgaaaca cccctgatct tagttgggtg atttatagac ctatgatgtt ggtgggtgatc 420
 agctaagcaa actagccaaa cngaagtaat ttcaaattaa ggccttttac tttgggctat 480
 tactcattat tgggatggng ggtnaagggg aaaatcccaa tttntggccc tnacca 536

<210> 10240

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10240

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 tgtacattgt ggggaattta gacagggcat gtccaggatg acttgctact tctcctcaaa 180
 cttttagacc tctcctagga gactcactca gatgcctggc gattgctctt ggctgtcagt 240
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 gggctccttc acagcctgat gactggcttc tccagaatga gtgtcccaaa aagagcaagc 360
 cagatggaag ctgtatcacc ttttcttatt ctgcctcag aagtccata gcaacacgtt 420
 tcctggacac tattcttttag aaagtgagtc accaanggca tattcaangg ggaaaaggaa 480
 ttaagaatct ancctttggg ggaaaaaggg ttaaanaatt ggccaagaag ttngggcctt 540
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<210> 10241

<211> 469

<212> DNA

<213> Homo sapiens

<400> 10241

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aagagacagg gtctcacact atgctgcca ggctggactc gaactactag gcccaaagcc 60
atcctcctgt gtaaaccacc cgagtagctg ggagtacagg tgtgcaccac cacgcctggg 120
ctttgtagca tgtttaaagg aacctaggtg atttagtcaa aagagaacac tgcataaacc 180
aaggcctcag gtgcttcttg ctgccttcat ttccacagag gagaacacag ggatttagag 240
gagatggaaa cattttctag gcagttattg aataacggat ctttggagga gttcgtggag 300
tagtgtaacc agaaagtctt taaaattaaa cccttctaata cgtttgtaag tgtanatggg 360
gggacttgga aatctccggg gcctaatacat gctcgcaaaa ggagtacat taatagcttt 420
ggagaagggg gcttncnttt cntttccagg ttaagtcaac cgtacnnnn 469
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<210> 10242

<211> 519

<212> DNA

<213> Homo sapiens

<400> 10242

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ccgccccac ccatacccc agtgtgcaat ggctagctgc tggcctctc catctggtcc 120
ctccagcctc acagcctcct cctgaagccc ttctcttcca ggctccagaa gagcaggaga 180
caaacacacc cactgaggc ccagctttaa taaagtgcct gatacagagc caggggacag 240
aaccaggtg atacagctcc cgacagccat cccaggacga cagagggtcg agggagaccc 300
tcggaagccc ccagtgactc cagacaaagg ggcaagcccc aaaggcgcct ncaacagttg 360
gaaaacctcc ctgctagagg gcanaaaagg aggcctggcc cttaagagc ccagctaata 420
gcaactggct naagggtta aaaaacnagc tttaggttt ggncccgttt cnttaaaagn 480
ccccaacctt gaaggagttt ggccaaaaaa nccctaaag 519
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<210> 10243

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10243

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atcttttaac gttataatTT tatttcaaag aaaacagaaa cagaacaaaa acaacctttg 60
catttgaggg aggagattat ttacagttt tggaaaagaa taagaacaat tgtatcagga 120
aacaatgat tatgacagaa actcgcatcc gacagctgca gtgaatccac gaggacacag 180
accatgctgg tggccacagc agggccacag gtgaatccac aaggaaacac agaccatgct 240
ggcagccacg gcagggccac agggcacggt ctccatgtgt taatgtttaa tgtcagcatt 300
ttcatatgga cagaaatcac gaagaaatcc tgcaaaaatg gcatcaatat gaacaaaccc 360
ttgttataaa aagcaaaata ttgataggaa caatatcttn cagcgtgtgc gtttcacatt 420
tangctttac tggatgaaac taagtcaaaa ttagaagcac tgggctatct tccaccgaca 480
tatattttac tggatataac cttcaagggt tttcttaacc ataggcttaa aaggattctt 540
ttttcccaat gngaccngac ccc 563

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<210> 10244

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10244

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cagtgtgatt ccaagcaggc tcatggacta gtgcttacca taaccaggt gcaccagcaa 120
tctgggatat ggtctccac agaagcactg catacagaga aggtgcattt atttattcag 180
tagacagcaa gatttcccag ggagaggaaa accgccctgc cccacctcta ccctggcttc 240
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tcacgtcacc ctgtcgcca ccttgaccaa taggtcaagg gagacttctg ccagctcgct 360
tctgctctgc tgatggcctc atcctgccac tgtggctttt caggctcttc ctctcttgc 420
cctggcggac gtggggcccc actctggctt tcttcttgn accangccct tgcaatggat 480
tcttgctgct ttaggaaaa accngcttct tggangagcc tttnttaaaa caaacctggg 540

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tgggccaaaa ctaanggtgc nct

563

<210> 10245

<211> 513

<212> DNA

<213> Homo sapiens

<400> 10245

aaaggataac atagatttat gtttatttgc attttatgtt tccttatggt tcatatgagt	60
ttattggaaa attagcaaca tacacatcat tttggggaat ggaaagtgag gcagagtaag	120
ccagaacatt cactgtaaca ttataagcaa gtagaataaa ttgataatac cttcaccagt	180
aatgcacttt ccctagtgga aataaattat ttgtataaat agcctcttga tgtttgtgtg	240
ttatttagtt atacaaatca catttttctt ttttacatat ggcactttaa tgtagtact	300
gaaaatgttt tttctgacat tttttcagta attgtcattt acatcaaata tgcagctaga	360
gctaatagaa aaacagttta aacaatttgt tagnaatggtg agatatttat aaggaaacat	420
ttatnaaaga tcttctgtaa gacagcttaa acttgaaaat cntatcaggc cttaaaagca	480
ntcaanggtt tttaccancc aaaggtnnga agc	513

<210> 10246

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10246

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ccttatttta cacatccgaa gaaacacat cacaggaggt ttgtaggtcg gctgtgtgct	120
ttccaaaaca gcaaaataga ttcttccat ccaacccctt ttctcttgt agagtagggt	180
gtggctcgtg gggcttcgtc tctctgcagg cacagaaact ggcagacctg gtcctcctg	240
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taacaacact gtgcatttct gtgtcatttt gtttattgct cactgagttg ttgccacctc 360
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 atggtccgtt agggacacag ggcagcccca gccagatccc actggtccat gcagggcatc 480
 gcagtagaaa ctnaacgtnc cacttngtaa caggctncaa gacaccaatt ccggcancat 540
 gggaagaan taaaccttn 559

<210> 10247

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10247

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 caacctccgc ctctgggtt caagtattc tcttggtca gcctcctgag gagctggcat 120
 tccaggcatg tgccaccaca ccagctagt ttttgtattt ttagtagaga tggagtttca 180
 ccatgttggg caggctggtc ttgaactcct aacctcaggt gatctgcctg cctcggcctc 240
 ccaaagtgtt gggattacag gtgtgagcca cagcgtcaa tcttcttc tttcaagctg 300
 caaataaatt tatggaaaat gtgaacactc atcttcta at gcttccagaa aaatgaaatt 360
 gagtaaaatg gaagtgatgg cataattctt ctttcagggc tatggagctc ttgaagaatt 420
 ttactggtaa taaagatcac cagcagcatg gacaccaga agagaattgc aaagaagtaa 480
 gtgggaaaga agatgtcaac ataggcncgt atgactacng gggaaaatgn cgtcttttaa 540
 caatggcaat tggagcntta antggcct 569

<210> 10248

<211> 532

<212> DNA

<213> Homo sapiens

<400> 10248

gctgaaagtg catttagcaa agaactaaga tataaaactg ttaaatactc atatgatata 60
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 attcgatttt ttttgtttcc cttttcttta ctctatccag aagcaggggc tataattgtc 180
 acgggaccct tgggatgtcg atttgccagc cagaaacctc tgtggcaggc agcgccttct 240
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 caaagagtgt atgagcgaat gagcatgggg tccagccact gtgcacagcc acgcatgcta 420
 gctgctgtgg caaggcagac agcttcaggc accagcaca gtgccagctt catgcaaggc 480
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<210> 10249

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10249

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 acaggcccag caccacaccc agctaatttt tttgtatttt tagtagagac ggggtttcat 180
 cgtgttagcc aggatggcct tgatctcctg acctcatgat ccaccgcct cggcctccca 240
 aagtgctgag attacaggcg tgagccaccg cgtccggcca tgatttactc tttttttgt 300
 aatttttcaa actaccatat aataaacatg tctttcttta ctttttttg agacaagggt 360
 ttgctctgat gactgggctg gagtgcagt gggcgtgagc acagctcact gcagtcttga 420
 cctcctgggc cttgatcgcc tgggtcttga ctttctgggc cgacctgag ccctctgggc 480
 ttaacaatcc cctgcttaac ctttgagtac tggaccataa cgngtacca tgttggtaa 539

<210> 10250

<211> 555

<212> DNA

<213> Homo sapiens

<400> 10250

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ggtagggtca tttgctagta gaaaagaaag ctgggattcc ccatttactt tggagactga 120
ggagaaagaa ctgctttccc cactcgtgtc tgggcaaagg gtgtgcccag atgttggcaa 180
aggaaccaga caaaatcaac agccagcagt tttctgttcc aaacagttag ctctctaca 240
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ggcctcatgt gtatctggtg gnctgcanag cccaaagcag anagctatga tgaataaaat 480
attttaatgn tttctaaaat aactccttta tatccangga tncctcagta nggccctatt 540
atcctaaagc tcttg 555

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<210> 10251

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10251

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gagacagagt ctactctgt caccaggt ggagtgcagt ggtgcaatct tggctcactg 60
caacctccac ctctgggtt caagcaattc tttcctcag cctcccaagc agctgggatt 120
acaggcacgc accaccagc ccagctaatt tgtgtatatt tagtagagat ggggtttcat 180
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acaacatgat gcctagtgga ttcacccatg tttctgtgtg catccgcagt tcattccttt 360
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cctgagggac atttagattt tttcccctta agctttttgn aaattcaagc accctttcat 480
aatttggctt catctttctt caagggaatc ncttttttt tctcaaaagg atccngaaca 540

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ataggnattn aanccttcct ggaancgggc

570

<210> 10252

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10252

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gtatTTTTtag tagagatggg gtttactgt gttaatcagg atggtctcga tctcctgacc 60
tcgtgatctg cccgcctcag cctcccaaag tgctgggatt acaggcgtga gccaccgcct 120
ctggcctctg tgaaggcttt cacaatgccc tgggtcacct caccagagaa catgcagctc 180
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ggctcaaacg actgtgggaa ctgtgtattg ggagcgcaan ccaaccttgg gggacaaggg 540
aagnttttng gccaaaaacc cntaat 566
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<210> 10253

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10253

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caacctccac ctctgggtt caagcgagtc tcctgcctca gcctcccgag tagctgggat 120
tacaggccac aaccacgcct ggctaatttt tgtatTTTT agtagagatg ggcttttgcc 180
atgttgacca ggctggtctt gaactcctga cctcaggtga cccgcctgcc tcagcctccc 240
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aaagtgctgg gattacaggt gtaagccacc gcactcagcc atgcctgctg tttctcaaaa 300
 ccaagacctg ggggaagtgg agaaagatgg atgttttggg aatgaatggg ctcaagacca 360
 acaagagtga ttgcaggtct cagatagtgc ctctcccacc ctagtcccga cctcctgagg 420
 aacccttcag gacatggcct gcaaaagact aggggtgagca gggtatggca ccaagcaccc 480
 attggnccag ttggtgccac gcattcccgt gactgggaag agacaacgta nactggactt 540
 accctntaan ggggttaaac ccggggggnc 570

<210> 10254

<211> 447

<212> DNA

<213> Homo sapiens

<400> 10254

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 caacctctgc ctctgggct caagtattc tctgacctca gcctnccgag cagnccggac 120
 tacaggaata tgccaccaca cccagctaatt ttttatattt ttagtagaga cagggtttca 180
 ccatgttgat caggctggtc ttgaactcct gacctcaggt gatccacctg ccttggcctn 240
 ccaaagtgtc gggaatacag acgtgagcca ctgcgcctgg cccctcattc ttgaaagacg 300
 gatcttctgg gtacacaatt ctaggctatc actatcttct cccaggactt tgaagatatt 360
 atttactatc tttctggctt ccactgntgc ttttaatcaa ctacttattn tcttctttcc 420
 ananaancnc tttcttttnt gccttaa 447

<210> 10255

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10255

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 ctaattatit gtactititit gtagaggcag ggtttcacta tgttgcccag gctgggtctca 180
 aactcccggg ctcaagcaat ctgtccacct tggccttcca aagtgtctggg attacaggct 240
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 cagatgtctt gaggcctgag ctctgtgttta tggcaagcaa cacagccaac catgcacagg 360
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 aaagctttga cactggatct taagaaaata agtaaactcc ttggtacaaa agcncitaaag 480
 aaaattaatt acattaaaca cagttcagga agcaccgtgt gatctggcca tgccaggcag 540
 gcaaaggggn tttcaggggg gc 562

<210> 10256

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10256

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 tacaggtgca caccaccaca cccagctaag tttttatitit tttagagaca gggctcttgct 180
 atgttgccca ggctgggtctc aaactcctgg tctcaagcaa tcctcccgc ttggccttcc 240
 aaagtgttg gattacaggc tgnititaaac gtgtattatc ttattactag tatatattac 300
 ttgttgcccc gtctgcccac aaaagacacc actgaagtgt atatatgttg caagttcctc 360
 tccagtgacc ctctaccaa ctccacagag tcagctacta gtaacagcat ggngtatact 420
 tctagaactt tccacaagcn cacacaaccg ngtaaataatg aaggttccca gaccaacctg 480
 cccacccggn ttttnaaaaa aaaaaaagng ggaattitncc aaaggcctgg tttgaacggt 540
 tcccc 545

<210> 10257

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10257

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agataaatct gttcagataa gctccttatg aatccttcag atcgatgttc ttgaggaaaa 60
cagtcaagct aaacagcaat gatgactttt atggtaaagg atgagctgat cactagctaa 120
gctacttagt caccatcctg ggagatgagc tcacaggcac caaggctttg cttcctgtgg 180
cctgctagtt acagtgaacc agtccatgg attgacaagg gtacacagga tgacagcaga 240
gcaaaggagt ttgccaagta tttgttctgt cattaagtat tcaaaagaac atatattttt 300
cttcatggaa cataactttc taagaatgaa atttggggac ttgaatgatt caagggtcaaa 360
tattaaacat tagctccttc accaatacct gncattgnca ttagaaagga aggcctcttg 420
gttacgtac tggngattca caagggtcct ttgtcggcca agaaggcccc tttgnggctt 480
ggctttaact ggcaatggaa gcctaaactt ttgcccttag gcatctangg ctttccangg 540
ttggaagttg caacccaatg gtg 563

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<210> 10258

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10258

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gaaacatgag ctcacttggt gctctctggc ctctttattc ccatctcctt aggctgaccc 60
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ccaggcaggg gagggagctt acggacgggc taggctcagg agagtaagag agagcagatg 180
aagggcagaa gtccgtggcc gcagaggcag ctgagcatga gggatggagc gtgctgctgt 240
cctgcaggtg ccgttagccc tgttttgac tggtggattg atctgctcag gcgcacaggg 300
agatggcaca gcaggacccg ccgcccagcc tcgctgaggg catgctccc cctcacctcc 360
agaggctgtt gggcggaagc cgaaaagctg cagcagttgg ggccagcgtg ggactggang 420
cccaggtgaa tcttgtgggg caagggacgg agcttaagct gtcccggccc gggnccttcc 480

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canccaaagg ncctaaaacc ttagccttta atccttgggg ggtttgcttn tccctgaanc 540
ctggggtttt ctga 554

<210> 10259

<211> 575

<212> DNA

<213> Homo sapiens

<400> 10259

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gcacagcagt gagaggagct gaggccaagg gaggcagtca cacaccctag ctctgcaaga 120
cctccaagat ggcccggagg atggcagcag ctgccaccgc cccggggtct ggctgctcca 180
gccgtgctga gctgatataa ctggctcttc cggctccagc ttccatattc ttggtggcct 240
cggctgcagc ttcggcactc ttgactgctt tggtcaggac ttgtaacaga tcagctcctg 300
ggctcttcca ggcttggagc tcctgccccg ctgcccacag agaaccacag atagtcctgt 360
cccctggagc agccttgcca tacttctgca tggtctccag gcccggcac catggcagca 420
gaccaggctg ggaagctggt cttggccttc agggcttgtg caaccccagt caggaacang 480
ccataaacgc cccaaatgaa ccttccatct tttcaagagc ngaccgacaa cttggaaaac 540
aacttgcaag gcttgcaang ggggtgggcc tcctn 575

<210> 10260

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10260

acaattctca tattttatit tgtaaatgca tgataaaaaa ttaacgtcat cattcagatc 60
cattatttgg aatgaagaat ttagtatttc ctgactgcct aatttggcac tttgaggaat 120
ttcctctgca cgctgagccc caaaatgcac tattttctag accaaaaatg aaaacgtgcg 180

tatatacaag tgagctgaaa agttacaaca caagatgatac attttggtga aaaataatcc 240
 ccccaaataa gcagcatgtc atgtccttag aatatgttac actagaaagc tagtaaaaat 300
 tcaggctaag gaggcaattt agagttcaag ttttatcaca tatcagcaaa gtttttagcct 360
 tcccttaaaa acagacacct tcaaagtga atcttgccag aagggttgat ttttaattat 420
 gngtatatac aaacttctct attttaacat tcaacatatt caggattaan tctagaaagg 480
 agctatagct gattattaaa ccaaattggtt aggaccgaag gaaattgggc ccccaattca 540
 tnganncctn 550

<210> 10261

<211> 476

<212> DNA

<213> Homo sapiens

<400> 10261

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 caatgatatac tggcctaata tgaanaactt tctttcactg nattgntttc cttcacaatg 120
 gccttcaaat cacaggaggc agtgattcca tgccatttcc tcttctttta ttacacgcta 180
 caggatttct gaatcagtat ccccgccctc agtcttctct ttataaatca aagtcatttt 240
 caatccaccg tttaaaggga gcgtatTTTT ttcttttcca cgaanaggac tctttgnttc 300
 actatggagg gagaaaaaaa aattgnggca gaaaattatt aagtatcatt gccattttta 360
 taaaaaatca tatcagacca taagccctac ctttctctta atttactatt cctggatatg 420
 aaaaatggag ctgatttggc aactcagttc ctccatncca ggagccaggg cagatn 476

<210> 10262

<211> 495

<212> DNA

<213> Homo sapiens

<400> 10262

ctgagacgga gtctcgctct gttgcccagg ctggagtgca gtggcgggat cttggctcac 60
 tgcaagctcc gcctcctggg ttcatgccat tctcctgcct cagcctcccg agtagctggg 120
 actacaggcg cctaccacca cgcccggcta attttttgta ctttagtact agagacgggg 180
 tttcaccgtg ttagccagga tgctctcgat ctcccgcact tgtgatttgc ccgccccggc 240
 ctcccaaagt gctgggatta cagggtgtgag ccacggcgcc cggctggtgg ttttcatata 300
 tttaaatgt tgtgcaacca ccacccatt atctaattcc agaacatagc ccgtcacccc 360
 aaaaaggaac cttgcatcca tcatcagtc ctcctatatt cccctacccc acttncctgg 420
 caatcactaa atcacttttt ggtcatatgc cattgnttaa taatggacat ttcataataa 480
 tnatacacia ngggg 495

<210> 10263

<211> 473

<212> DNA

<213> Homo sapiens

<400> 10263

gccaaaacaa actttattgc nccaaaaagg aaaacaaaaa aaacaaaaaa acttcattta 60
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 attagggcat aaaagtcagg ctgctatgcc anacatgctn tgccctatgg cagggccaaag 180
 gagaggattg tcacttgaaa gngggaacnc ttaaatggat gacagacaac actggaccca 240
 cagaccaaga gcattcttnt aagccctgga gtagctcgag gaatggaaga gggaaattgg 300
 aagcagggtc ccttttcgat cttcatgtga agagacccag cctnttcaag ggtatccaag 360
 ataaacttcg ttcccaaag cccaccaatc cctgnccagt cctttgnttt ctgccttccn 420
 aataggacat tctcctttgg ggccaagccc ccttgnaca aaatcctcca ngg 473

<210> 10264

<211> 497

<212> DNA

<213> Homo sapiens

<400> 10264

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caggttttta tttttttatt tcttatattt tttaagacgg agtttcactc ttgttgccca 60
ggtgcagtgc aatggcatga tctcgactca ctgcaacctc cacctcccag gttcaaggga 120
ttctcctgtc tcagcctccc aagcagctgg gatcacaggc atgcaccagc acaccagcc 180
aattttgtat ttttagtaga gacagggttc ctccatgctg gtcaggctag tctcgaactc 240
ccgacctcag gtgatacacc cgcctcggcc tctcaaagtg ctgggattac aggtgtgagc 300
caccatgcct ggccccctggg gacacttttt tcagaggcca gatgtcaact tccatctcca 360
catgcctcaa gtttacacat cattgcatct cagcacagag ccccatcatg taagggn tac 420
tttgggttat tctggccctg tgagaagaaa ctattggcag cnaaagccat actggccttt 480
ggcaactttt cccaagt 497
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<210> 10265

<211> 489

<212> DNA

<213> Homo sapiens

<400> 10265

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gagacagagt cttgctctgt caccaggt ggagtacagt ggcattgatct caactcacca 60
caacctctgc ctcttggttc tcctaaatcg ctgaagcggt tctcctgctt cagtctcccg 120
agtagctggg gttacaggca caagccacca cgcctggcta gttttttgta ttttagtag 180
agttgggggt tcacctggtt ggccaggctg gtctcaaact cctgacctca agtgatccgc 240
ccacctcggc tccccaaagt gctgggatta caggcgagag ccaccacacc tggcataaaa 300
tacattcttt aaattcatat tatctgcttc ttttacttc ttttaatgtg gctcctggaa 360
aatctaaaat ttgatttttag atctatggct ccattatagc attcctattg ggcagtgtctg 420
gtcttccttt ccatgagaac ccttagctg ggaaaagttt ttctggacta attttttttn 480
aaattttna 489
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<210> 10266

<211> 491

<212> DNA

<213> Homo sapiens

<400> 10266

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aaagaagccc aaacacattt tcttgctgta tttatgttga attccccatc tacaatgagc   60
agtcacgaag atggtcttct tcagggcaac atggtcacag gactggggca atccagggga  120
ctgagaggga gcgtgaggat gggaggtggg gctacctcct gctgtttcac attagagaca  180
aactgtaaca cagtccatgg gcctgcaacc gtccccctttt attatctggc ataacgcgtg  240
atgtagtgtt ccactttatt ctggaagtcc tccttgcctt gcaaattgat ttctgtagct  300
tcaatattca gtggatcatc aaaattcaaa aatcagtaaa caaagagttt aatccccaaa  360
cgacatcctt taatgntctc atgggagccc aaccagtgcc cgcaattgna tggctctctca  420
gtaactcaga catatttccc tggctttggg aatgttgggg tgccanatct tggtcaggcn  480
tttacttttg g                                     491

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<210> 10267

<211> 495

<212> DNA

<213> Homo sapiens

<400> 10267

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gagacggagt ttcactcttg tcaccaggc tgaagtgcaa tggcatgac tcagctcact   60
gcaacctctg cctcctgggt tccagcgatt ctctgcctc agcctccaga gtagctggga  120
ttgcaggcac ctgccaccac gcctgggttaa tttttgtatt tttagtagag acggggtttc  180
accacgttgg ccaggctggt cttgaactcc tgacctcagg tgatctgccc accccagcct  240
cccaaagtgc tgggattaca ggcgtgagcc actgcacca gccaaaacgt ttttataaag  300
aggttttaaa aagatgggta tgtgtatatt atgtgtatct tataattaaa aagttggggg  360
aaacatttta aaatagtgac cataccaat tgttggttaag gctgggggca accggaattc  420
ataccactgn taatagaaat gaaaaaccgg ncaactactt nggaacagtt tggcaagttc  480

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ntttctttct ttnnn

495

<210> 10268

<211> 431

<212> DNA

<213> Homo sapiens

<400> 10268

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ccaaatgcac acaaaccctg tctctctcaa gaatcactga tgtatttcat cgtagagttg 120
agaatttcta ggccatgaag ctttctcagt tgagcagcaa atctgggctc agctgtgcac 180
agcttcccca gagcaatgcc tgcgttcacc tgcacggccg tcttctgtgt gtcactgcct 240
gcaagcttta acaagacctg caaaagggtcc gtcttttagca gggaagacgc aacgttgggc 300
acctccatgc agttaccaag gcagagggca gcgttgccca ccagaacctc atcctccgag 360
ctgagcagct tcatcataac gctcaacttt ttatccagtc ttantacttn ttncgagct 420
tnangnanac c 431

<210> 10269

<211> 499

<212> DNA

<213> Homo sapiens

<400> 10269

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ctgcctcccg ggtttacgcc attcttctgc ctcagcctcc caagtagctg ggactacagg 120
tgcccgccgc tacgaccggc taattttttg ttattttttt tagtagaggc ggggtttcac 180
cgtgttagcc aggatagtct ccatctctg acctcgtgat ccgcccgcct cggcctccca 240
aagtgtggg attacaggcg tgagccactg cgcctggcct aatttttact tcgtctggct 300
tgttcactac tttggcccaa cagctggctt aaccgcac tcgcctgaca cactagaatg 360

acacagtgga atttttggat ggtaggttta tgtggcttca aaaacaggaa gtttctactc 420
taggtcctaa ctagaaggat tncnttagaa acataaaatg caaattnagc aatctataa 480
aagtnggtaa aaaaagtcc 499

<210> 10270

<211> 473

<212> DNA

<213> Homo sapiens

<400> 10270

ctttcccatt tggaacaagt gcccatcaaa ggcttaggag atataaaaga tgtacaagaa 60
caactccaag atccctttta agagtctttc atctttctgt aaaaactaaa ccaagataca 120
taacatatga gtgtcacata tcgcatgcta attcagaagc aagctatatg aagcaatagg 180
aaacacagag ccgtcagagc gggaaagccc tggaggcacg agtcagcgat gacaccacag 240
ggtattcaag gagcaccaat ggcctgcagg tggcagaaac aatggaggaa ccagcctgag 300
tcaaggagga ctactaggt aagcttgga aatagggctg aagacgtgga ctgagcagtc 360
gatggaaggc tcggaagtca gacatggntc acctgcgaca ggggcctnaa caagagaccg 420
gtntnaaggc actggtttaa ggcentnggt ttaaaacccc ggttgccttn aac 473

<210> 10271

<211> 445

<212> DNA

<213> Homo sapiens

<400> 10271

cacagtccta cacataattt atggtattca gaacatcact ttataaactg ttgccaaatt 60
accacttaaa cactaataic caaatacaga atttagaaaa ttattttaaa ttttaactct 120
accatcccc cgagctctcg gctatgaatt tagtctggga agagggtcc gtaataggcc 180
actgaggtcc tctgtccac cacatcatcc tccccgaaa actagctgcc cgactgctct 240

accagacttg ggctagaatt tggcttcacg gtggcaatgg gaccacctgg gccctacagt 300
gtggcaaaat caacttgccc acaaacccca tcccagggtgc tgggatgcta acacactgaa 360
gctgaaagac cacacttggn ttgcccacag atcaagctgn atntgactag acaggctggt 420
ctntacccta tttinctgnaa aangc 445

<210> 10272

<211> 493

<212> DNA

<213> Homo sapiens

<400> 10272

ggctttggct ntagagcatt tattgnaaac aaaattgagg taaaagaagc tgacccanaa 60
cccacgcccg tccaggctgg ggaagtctnt actngcccca caccaggccc cgagcaccgc 120
gggcccnaag cagcccccan aggacanacg ggccctgcgc actgaggtag ctgcatntta 180
agcccccatg agtacaactg cccagggtcg cccaattccc anaggggagg aggagagaga 240
ggcaggcagg gggagccccg gcttnaggng gggcacaccc cacaccctta acaaacctnc 300
cagcctttng ggctgggcac ttinctgcctg gncaccacgc cagccatggg gcaacggggt 360
ggccacaaa agcgggcctt cttgggtcca agncacttgt tgttcaagca atccttgggn 420
acccttggg aagcaagtta anccagacgt ttgaaggta nttggggtcn ggataaccgn 480
ggccctaata ttc 493

<210> 10273

<211> 429

<212> DNA

<213> Homo sapiens

<400> 10273

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ccaagtcacc agagcgcagg tgcagagagg aaaagctgtc agctagtgcc agcctccaag 120

ggccagcgct acccttcaac agctggaggc accactgtgc gaggctttcc acaccggcct 180
 ccctcaggaa caagacatcc tcaccaggca ggggtgaggt atgggctcca ggactggctt 240
 cagcaggcac caggctgggg caccagctgg ggcctgggta cgcccagaag gtcacacaga 300
 cggttgcgct gctctctcac cactgcaagc tctgcgtccc acgcagtgtc actgagcaca 360
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 gaccccttg 429

<210> 10274

<211> 490

<212> DNA

<213> Homo sapiens

<400> 10274

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 caggcgcccc ccaccacgcc tggctaattt tttttttgta ttttagtag agacaggttt 180
 tcaccgtgtt agccaggatg gtctcgatac cctgacttcc tgatccgccc gtcttggaca 240
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 agctggcagg aaaggagaga gtggctgggt gaagaaaccg ggttgaacaa tgttttgntt 360
 ttttcgatg ggaggtatct gaacatgact aaatnccgat ggacagaatt gatngaaang 420
 ganaattgcc aaaagagcnn aaggcatttt ggaaaagaag gaggaggacc canggtccta 480
 aggggaaggt 490

<210> 10275

<211> 520

<212> DNA

<213> Homo sapiens

<400> 10275

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 ggactgcag ctctggagtg gccagctcac cacagcacc tccacttcac cttggggaga 180
 ggagggatgc tgggtggttaa ggaggttaaa accattagtt ccagtaatgc cagttcccaa 240
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 tccagccatg aggagcaact cgaggagaga aaatatagcc caaggagggtt agaagagttc 360
 caatatacct cctcccttcc cccaccttaa aaaagaaaaa aaggcagttt aaggnattta 420
 ttacccccaa aatnggttcc ccttaaggct tgaaaaaagg accaagatgc cagcnttgag 480
 ggagtntga aaactcanag ctatctatc cttgagcctc 520

<210> 10276

<211> 475

<212> DNA

<213> Homo sapiens

<400> 10276

aatcagggtt tgactacttt ggaggacagg ctttagggag aaacctgttg tgcttgtttt 60
 ttttttttt tttccagggg tggcgggggg ggttggcagt tggcatttct cttatgcctg 120
 ctccagctct atccanagac gtggcatcat agagacatcc cgatctcctc tgtggaggtc 180
 atcggactgt acggaanatg gggatgggat agaagaaaat ggactggcaa ccagctctgc 240
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 aaacgaaatg tcaatactct gccctagcga tatctgtgcg aggcaaaaaa agaaaaaagc 360
 aagcaagcaa accagcaagg gctttggcgt ttgggaaaaa ttatttaaca ncanttgnnt 420
 gcacctttgg aanaccctg gggnttccaa acccgcccaa tcntgttggg naggg 475

<210> 10277

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10277

agcatgcaat tttttattgg tttctaaatc tatttgtaca cttaatatgc tagtattaat	60
ttcacaaaca gtataaagaa tgtactccaa tgatattacg cggcaactac tcacctgaaa	120
aagaaaacat tgtctctgaa ataattccta attatacaat tttgcaaata agcactataa	180
atattaaaaat gtttaagactt cagtgtataa tgtcaataac atcctgcctt tttaaaaatt	240
gcttaaaaca tttgttaaag atcatgcaaa ataaacactg tattaaaatg ctagattaca	300
ctcaaacatc aaggcaatga aacacaaaag agcaactatt tagcacaatg actggcccag	360
taaataactt aatcagcata ttaataaaaa cccactgagt gataaacatc gaaaatgtaa	420
cactgaatct agataatagc gcatntggcg atctaccatc taccgnccta actggacttg	480
ggggnaaccc nccggaatca ttctacataa atgagctntg tnaaacgata ccatattcat	540
tgn	543

<210> 10278

<211> 519

<212> DNA

<213> Homo sapiens

<400> 10278

agtgggggaa ggggtgagagc tcagcactca ctgctttatt atcacagtag gtgacaaagg	60
ccgcagggag aggggggaaag gtccagagct gtggagaaag aaggggctcc ctgtctccag	120
ggtttgttta aggttttctc catggcctag ggcccagcca cttccctcac tggcctcaaa	180
gccctggagt tgagccctct aggcagtcaa gggcaggcag gagatgggcc agagaggggg	240
aggatgtgtt ctttaggtac agaatccctg accacggggt ccagtgcctg tgggcccaacc	300
accaggaagc tgtgcatgcc cacagcccga ggcccctggt aatcgagag gtaattatcc	360
ccaacatggg ctgccactac tggttccata tgaacaagcc ccaaggcctt ctggaaaatg	420
ccggggtncg gcttgggcca accacaacct nngangtcaa cnccaaatca antggtcacc	480
ccagnccaag gccttcaaga tgcctttaac cgtcggcaa	519

<210> 10279

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10279

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ggagatggag tttcactctt gttgcccagg ctggagtgca atggcatgat ctcgctcact   60
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ttacaggcgt gcaccaccac acccagctaa tttttgtatt tttagtagag acagcgtttc   180
accgtgttgg ccagcctggg ctcgaactcg agacctcagg tgatccccct gcctcggcct   240
cccaaagtgc tgggattaca ggcgtgagcc accacgcccg gcgtcctttg taaggtttct   300
atccactatg aattcttcga tgttttgcaa ggtttgaatt ttgagtaaag accttgccac   360
attggttaca tttgtaaggt ttgctccagt atggattgcc atatgggtaa gttagggttg   420
aacgaacact gaaggctttc cacactcatt acacctataa gggttttttc cagngggaat   480
tcttctatga tttgcaagat gggangtttt gaagtgaaga ccttgccaaa ttcgttacat   540
ttggaang                                     548
    
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<210> 10280

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10280

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ggctttttta aaatttactt attacttggt cttagcaaatt taagacaatt acaataaaac   60
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ggagttccca gcgggccgcg gctgacggcc agatctgtcc tgaggggtcg tgggagccca   180
gcgctgcct tgagggaat gaacactgaa aacaggattt gggagcagta ttggattgac   240
agcagagaag ggactgtttg taagggcagt ttctcactga agctgctacc attttccttt   300
gtaaagaagt catccacctc ctcccagcgg tgcccatttt caagacgctg cccgagcctc   360
    
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ttaaaacagc ttcttgaaag ggtttttcca caacgggttc tggaatgttc tgcttcagct 420
 ctggaggatg ctctaaatta gttcaccatg atgaagttag atttgcagtg agctataact 480
 ccgtcacagg gtcattgctcg ccttccgttt gatggtacct gcnaagctgca ttctcaggat 540
 gggga 545

<210> 10281

<211> 529

<212> DNA

<213> Homo sapiens

<400> 10281

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 tttagtagag acaaggtttc actgngtttag ccaggatggt tttgatctcc tgacctcgtg 180
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 ctcaaggttt gaattttcaa cataacttaa gaaacctca tcctttgggg ggatgaccgt 300
 gagtgcagtt taaaaaaaaag aaaagaaacc ctctatgaa ttaaacaggt cttgggttaga 360
 gggcaaagtt ctctttctaa ttanaatgna agggacctga naactctatt catgnctaaa 420
 ttgcaagggc cataaagggg ccaactcatt atanggggnc aataaagaat ctggtngata 480
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<210> 10282

<211> 512

<212> DNA

<213> Homo sapiens

<400> 10282

aaccaactta gttcagcatc cttatctcat tatgccttag ctacttgaag gtgatctatg 60
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aagatttagg ttgaagttat cattctctat gaatactccc atgtgcatgg ttcatttatt 180
 acagtgtgt aattactctt tttttaaggt tgtttaattt tctttttttt tattatactt 240
 taagtttttag ggtacatgta cacaacgtgc aggtttgtta catatgtata catgtgccat 300
 gttggtgtgc tgcacccatt aactcgatc ttaacattag gtatatctct taatgctatc 360
 cctccccctt cccccaccc cacaacaggc cccagtgtgt gatattcccc ttcctgngtc 420
 catgtgttct catcgntcaa tccccaccta tgagtggagaa catgcngngg ttgggtttct 480
 ggccctgggt cagnttgccc anaatgangg tt 512

<210> 10283

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10283

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 ggtgggcaca ataccatctt gaacgcccac aaaaagggtt ggttttgttg ccaaagggca 180
 ggtggctcca ggcagggtcg atggtggcag ggtgggggtga ggacaggaca agagatctgg 240
 gtgtggaagg atggccgggt ttctgcagca gcaggaggaa aggggtgggag cacacaggca 300
 cagaacactg tgagcaggac tgccaggcca gtgtcacaag cgctaccatc tgggtgtaga 360
 cagacctgag ctgacaaagc tgggggagca aggccaacgg ctttaaacac aagctcaggg 420
 gcttgggggtt tatcccaggg gcacagggca nccatgtagg gtggagttgg catgagttaa 480
 gcctgggctg ggtgtgtana ctggacaaaa gtgggtangg cangcagtga ccantttgtg 540
 tgcaanaaac tttntggc 558

<210> 10284

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10284

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gcaaagattg ttggaaataa tccttctctt gtacctagaa acataggtgc aaatttctga 60
tatctttgtt ttatctgcat tcctgccttt catgaaagtc cctcttgatt gtgctgaggc 120
tgtggctcag cgaagacact gaataaatac gatagccact gttgcttggt gcttgtccaa 180
gtcttcctgg ctctctgctgc aagaggggga tatggagaag gtgggccagg gtgtgtggac 240
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agcagggcct ttcctctggg ttttcaacca gaagtatat tccacaagtt ttaactgggt 420
actngaagt ccaagcggcc agaattnga aaatgtcact ggaacactgn agccgnggac 480
cttaaagacc gtaggccttt taaaatttgg taaaaatttt gggagggctn ttacaagngg 540
naattttttt tttttt 556

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<210> 10285

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10285

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aaatacttgc attttatttc aggccaaagc ccctccactc tgaactaaat gccatgacag 60
tcccacagca taggctggta gtaaaagagc ccacagacag ggtaggatag ccagaggagg 120
gaggagtggg cgacagggag gggaaggatc acacacacaa acctaagagt agagcaatgc 180
agaatgcctg tggcactcgg ctctaccag ctctggctct cagtggagat gaagaatggc 240
agcaggagga cagaatgcct cattgtctga aggagagcgt gttgtttctc atctccatcc 300
ccagagccct ctctttcagg caggcagaaa caaagccctt gcacccact gcactgcgca 360
acacagcaga gacgctggtg gcggaagccc tggaggcagg gagctgctac caaaggagaa 420
gaaaaggatt ccaaaaagaa aggagccac tctaaccctg cgaaaagat ggnccatgt 480
ctgctttata acccgaagaa gacagtacca gcccggaca ggctttccaa aataaangnc 540
cctgggcttg t 551

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<210> 10286

<211> 539

<212> DNA

<213> Homo sapiens

<400> 10286

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gagacagggt cttgctctgt tgcccaggct ggagtccagt cacaagctct tggctcacgg   60
caacatcccc ctcaggctca ggcgatcctc ccacctcagc ctcccaagta gctgggacta  120
cagatgggtg ccaccacat gccgcctgg ctagtttttt ttttttttt tttganacgg  180
agtctcgctc tgtccccag gctggagtgc agnggtgtga tctcggtca ctgtaagctc  240
cacctccaa gttcacgcca ttcttctgcc tcagcctccc gagtagctgg gactacaggc  300
acctgccacc atgccagct aatttttttt gnatttttag tagagacggg gtttcaccgt  360
gttagccggg atggtctcaa tctcctgacc tcgagatccg cccgcctngg cctccaaaag  420
tgctgggatt acaggcgtga gccaccggcc agncctgnct ggctagtttt tggaattttt  480
ggaaaaatgg ggcntggtat gttgnccaag ctggcttgaa ctctgagctt aagggtccc  539

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<210> 10287

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10287

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gctagttatt aagaacaaag ggcatgtgtc gtaacagggg atctaattac tgtaagccag   60
aatgattgct gaaatgtcaa aatgtaagat tgaatgaggc tatttaaaca ttttagtata  120
ttttgtctta ctgaaattga taaaaaaaaa aaactggcaa tgtaactaaa tgcgtaacta  180
attacttgaa ataaaaagat tacttgaaat tcaaattaag aaaaatccat ttaaataat  240
ttgtgggtga taatctccat ctgcatccat ttatataaaa cttaaaatgc caaaaaataa  300
agaccaatat taatctcttt atttctgaat gagatgaaat cactgacatg tttgatgctt  360

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ccactattag aatataccct ttaaacacga aaagaacaac tgcaggagct ttaacatcca 420
 ttatcatggg tgaacatctt tggttacttct aaagncatca cacctatttg ggaggtnaaa 480
 aacctgaaat taaaagcttg naccaaagtc tgggtttaa aaggcaattt aattctgcat 540
 tctggaan 548

<210> 10288

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10288

agagtttgca tgagatttcc acagcaatct agatactgct tgtcaatatg aggatagagg 60
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 catacatcac caccagcaaa ctctctgtga aagtcactct gctccaaata catccttgca 180
 aagttaatgg caagcagtgg atcatgaaca tcatccagtt caagatggct ttcagcaatg 240
 gactgcatct tcatcaggtt ctctcttggtt gcctgttgct cagtaagaac ctgtggagtg 300
 gaatcttctc catgtcgaag acgggactgt acagattcca gaaagagagt gtataaactt 360
 tttctttctg catctctggc tcctgcctgg cagggtgtgc tctccgcaca ctgcagggtc 420
 ttcagcagct gcatcgactt gccagccatt atgatctggc ttcaggacag gtttgaagga 480
 aggacaccat ggngtgctgn ctgctggang gccctggcac tggcggaact tgcactaccg 540
 tatnactcat tttt 554

<210> 10289

<211> 565

<212> DNA

<213> Homo sapiens

<400> 10289

aggtgcaaac ctggtttatt acgttctttg gttaaattatt gtttctacat cctttcagag 60

cattaggaga acaaagataa tatttgatag aaagactgaa aacacatcct ttgcttttca 120
 gagaaaagac tgaatttaca ctggtactgt tagaaattct tataattagg ctagacgtat 180
 aagaagttag ggcttttgct gttgcttgta tgttttgaaa aatacattcc cctgggctag 240
 ccaacatcac tgtcctgaga ccagacctt caggagtctc ttgataaagg ctgctccgca 300
 catggtcaga aaagtcgggt cagctcatca tgtcgagact gcatggttca gtgttgccat 360
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 ctctggctctt gacggacagg ttctgggtcca ctcttcatt aaggttcttg aagcactggg 480
 ccaaggacct cctgcttggg gaagggtggt ctggttatna acttggtntt aagttactgg 540
 aaaaccttnn natggncccg gataa 565

<210> 10290

<211> 512

<212> DNA

<213> Homo sapiens

<400> 10290

aaacacaaaa tagtctttat ttgtcaacga aggctacacg ggatcacttc tggttttggt 60
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 atttacacag tcaagataca gtgtagaaa cacaaaagtg ttgagaaaaa aacttctcaa 180
 aattagtcc agacttcagg aaaatgattt ccacatggta aggccagagt ctccagtgtt 240
 ggtcatccag aagcagcttg gtacagactc cttttgccga agctgcgggt tcagaggtgc 300
 tcagaacaac aggtggattt agaaaagtgg gattctggtg ttgggtgaat ccagggctgc 360
 tggggcaccg ccagacacct gaggtcagc tcctgccagg acggcccagc gtgctccaaa 420
 ctaagccttc cttggctggt cgnccctcaga ataaatcaca tttcttgggg ancnagaagg 480
 tcncctaagn nccttgctt tggcattcca na 512

<210> 10291

<211> 585

<212> DNA

<213> Homo sapiens

<400> 10291

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caggctataa ataagaattg accttttcgt gggtcacaca tttgttgctg aagtcttcct 60
gtggggctgg gaaaagagtc aaaaccatga atcttgaata ttcttcctgg gaaaaactca 120
naacgccagg tggcgtctct gcagacagct gtgtcccgat gcccatttc tgggccctgc 180
cggaaggctg acactatgga gcttgtgctc cgtgatgccc agggcttctg tgaatggcta 240
aactgcattt tgtaattctc tttttaaaga gcttgcctct ttctggagct tccaccctct 300
tccttcatcc ctataaaaac agatctatct ttggcaggta catacactga gccagattct 360
cacactgcaa ggaggcaggg gagtgcaggg gaagcaacct ggggaagggg aaagagtgca 420
gggaggagac gactngccct tgactgnacc ncaagttgaa ctgggngcta cttggaagtc 480
aagccttncg agtgaaccct tgaaccatt catnggggct taaggttccc atgggcnntc 540
aactatccng ggcttaaggg tgaccttttg ggggtttttg gaaaa 585
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<210> 10292

<211> 459

<212> DNA

<213> Homo sapiens

<400> 10292

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gccatggcaa cacaggttta tttacacat accctggatg caaggtgggg cagggttgcg 60
gggagggaga gggagtagag tgatgtcaag agcacagggc tcctggcctt canaccagtc 120
ctcagctaca ttgctgcagg caaggccggc accagccccc aggctgagtc atgggtaaag 180
gccaaagact gaaacaagag tttctcatgc accaggcaca ttataaagc aacccatcca 240
cctggagccc aaaactgggt tgacagattc cagagaggca aggtccttga tgaccccata 300
actcccactg cccctttaac aagggaactt taacacctta tgataacca aatcctaaac 360
actgttgctt ctgccgctc ttccagacac agaaggcatg atcctgctga aactggcct 420
cgagggaact gnggntgaaa nccngngcc cantgntca 459
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<210> 10293

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10293

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ctttttttct ttttttttta gacggagcct tgccttggtg cccaggctgg agtgcagtgg   60
tgcgatctca gctcactgca acctccacct cctgtattca agtgattctt cagcctcagc  120
ctcccaagta gctgggatta caggcatgcg ccactacacc cggctaattt ttgtattttt  180
agtagagatg ggattttctc atgttggcca ggctgggtct caactcctga cctcaagtga  240
tccacctgcc tcagcctccc aaagtgctgg gattacaggt gtgagccacc gcgcctggca  300
atacttacat tttcttttct gaaaagtgag tgtgagaaga caaagcaatc ctacactaaa  360
tttattacgg aaaatgtttc ttcctggtag tttnaagtga tcacataagt cagcttatgt  420
taatngctct actatagagt atgagatant ccagagatcc cactttaagg aagacacagc  480
cttgggggct ggccaggntt actggagctn ggacctgaaa ttcctggtcn naacctttac  540
tttnagnntt tgaataccan                                     560

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<210> 10294

<211> 571

<212> DNA

<213> Homo sapiens

<400> 10294

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agacacagtc tcgctctgtc acccaggctg gagtgcaata gcgtgatctg ggctcactgc   60
aacttccacc tcatgggttc aagcaattct cctgcctcag cctcccaagt aggtgagatt  120
acaggcactt gtcaccatcc ccagctaatt tttgtatttt tagtagagaa ggggtttcac  180
catgctggcc aggctggtct tgaactcctg acctcaagtg atccaccccc ctcagcctcc  240
caaagtgtg ggattacagg cttgagccac cagcccggc tcccatagct gctttttgta  300
gttttctggg gatatcaggg gcagactggg tcataaaatg tcctcccaaa aggggtttgt  360

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ctctcctttg aggcaggatc agtgatatta tacttccgat tgcttcaact aaatgccctt 420
 gaaacaaacc tggattctta tctttatcct gagaatcttt cctnacctgg tcatagatac 480
 angcnttttc aaacaattct tnatccttc aacgaacaag ggccctttga acctttcttc 540
 ccaaggccta ntgggccttt ggaaaatccc c 571

<210> 10295

<211> 500

<212> DNA

<213> Homo sapiens

<400> 10295

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 acttgttccc cccattcctc acagaaggca caaatacatt atttctttcc atgtgaggag 180
 atgcgaggag aggatacaga atacaggaat cctcaaaaat acaaaaaacc cctccaaact 240
 gaatacctaa ggttatggaa aaggctaggg tggggcacag aagtcaatgg gggaacagaa 300
 agaggaacca atgaaactga gaaccaaag ggacctgaga ggccatgatg tccatgctgc 360
 tgcctctgtg cagaccccag agaaaactca ggtaaacc aa cgaaactcc aaataagaaa 420
 gggtaggggn gcccgaagaa ttggctttgg ggcacagac caaggantgt gaatgtaatt 480
 gnnngtgtnc anggctgggt 500

<210> 10296

<211> 567

<212> DNA

<213> Homo sapiens

<400> 10296

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 aatcttcttg ctgcatatct cacagtattg aattctttct tggtaggttc tccatacaag 120

ttatgaagca ggataaaagt cagtcttata ttaagtcatt gtaaatacgg ccttaatttc 180
aatcaccaaa gaaatgtatt tttgttgat accatggttg cagcatgttt tattaact 240
aattatatca atagctacct gtagagtatc aacttaaaaa ttataatgcc atttctatga 300
agtcattact tttataggac tagcctgtgt catatgtgtg atcaatattg gtttaatgca 360
gaaacaaagg cagctgggtg tccaagcaag ccacttttct gggtcagggt ttcagtggta 420
ccatagatgg ctgccagtct caatgtcact ttggcccatt tatctttata aatcatacca 480
tatagcttcg atatttccat ccntnaact ggagggccgg ccccggggt tacgcctgga 540
atcccagccc ttttgaggc cgaggcg 567

<210> 10297

<211> 515

<212> DNA

<213> Homo sapiens

<400> 10297

cgggtgcaag tcgtttattc gggagctgat tcctggaatc acgganaggt ggtgaggaag 60
acagccaggg aaggaggana gctgctgagg gccacgcgaa tgagctntgg ccaggagacc 120
accaagagtc agttaggat gcacctcgga atcatgccac taaggcatg gaggctggag 180
tggaaggaa gctggggtat ttccactcaa tctgggctct tattgttana naggngcctn 240
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gaactgtcct ccagtagacc aacggaaaag tgtgctggac ataaacaaca ccactgac 420
caaaggccca naagancnt ggaacttgca accaggcgct taaaactngc acaaggtgaa 480
agnctcagga nttaaagtcc aaaatttgat ggna 515

<210> 10298

<211> 581

<212> DNA

<213> Homo sapiens

<400> 10298

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gagactgagt ctcgctctgt cgcccagact ggagtgcagt ggcacgacct ctgctcactg   60
caaactccaa ttcccagggt cacaccattc tcctgcctca gcctcccaag tagctgggac  120
tacagggtgcc tgccaccaca cccagctaatt tttttgtatt tttagtagag atggagtttc  180
accatgttag ccaggatggt cttgatctcc tgacctcatg atccgcccac cttggcctcc  240
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ggggctctcc ctgcttcgct taacacttct ccttcctgct gccttgtgaa gaagatgcct  360
tgcttctctt tcaccttctg ccatgattgn aagtttcctg aggcctccca gccatgctgt  420
gaactgngaa gtcaattaaa cctctttcct ttataaggta cctagtcttc gggcagtctt  480
tacagcagta tgaacctgga ttaatatcct agtaatcaat cctttnccaa gcatgggaag  540
nctacctgca caatttcttt nnagnncnctt taactcttgg c                        581

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<210> 10299

<211> 578

<212> DNA

<213> Homo sapiens

<400> 10299

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ctggaattat ttatccaggc agaagtataa gaatggaatt aaattatctt ttgagtttct   60
cttaatccaa aggcttaaatt cccttgccag taaaaaggac aaaacaaaaa gaatataaat  120
ttttttctat aggactcatg actccaggaa aatacacaaa tcccttttta gaaaaatctg  180
atgttttcac ttggtatatt tccatctctt ctttatcccc tccacacctg gagctcccac  240
tgaatttctt aagacagact ctgagccggt gtaattagat gggagaatta catggagtta  300
catgggggtga gatgctggcc ctctgggatc tctgggttcg gagaagggtgc cagggtggag  360
aggcagaaca agtgggattg tgcatgataa catctcaagt gattttctca gtcagaagat  420
aaagcatatt ggtaagaagg gcatctacag cgaagcttgc attgagacag ttacaattgc  480
acactcattt taaaaacaaa ctggccaagn aattncngct ggcgtttaac cctgggaaga  540
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<210> 10300

<211> 463

<212> DNA

<213> Homo sapiens

<400> 10300

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ccagtcgggt tggagtttat ttctgccaga gcctggaggc tgggagggtta aaggacactc 60
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ggcagcagca ggagtgagag ggggtcccctt gtcctgcccc ttgcaagggt ttcaaggctg 180
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agagaggcca agaaagatgg tgaaaaggta aggaaagaaa aggaaggaag aaaagaaaaa 360
aaagaaaaga gaaaccnnag ggaaatgggt tgcactggct taagaatggn ngaaggancc 420
gnccaattcc tttcctaagg ctatngaate aataccgggg gaa 463
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<210> 10301

<211> 517

<212> DNA

<213> Homo sapiens

<400> 10301

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atttatttcc actctaattt ttgtttcccc tattctgcta gcttgggttt agttcttctt 60
ttttaggttc ctttaaagtg tatagttagg tgactgattt gagatctttc ttttattttt 120
tatttttatt tatttatttt tttttgagat ggagtctcac tctgtcgtgc aggccggtat 180
gcagtgggtc aatctcggct cactgcagcc tcaacttctt ggttccagtg atcctcccac 240
ctcagcctcc caagcagctg gaaccacagg agggtaacac cacaaccagc tgatttttgt 300
attctaggta gaggtggggc ctcactacgt tccccaggct ggtcttgaac tectgaactc 360
aagtgatcca cctgccttgg cctcccaaag tgctgggatt acccgctga gccactgcgg 420
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ccagccagtt gggcaagtgt tttctttttt ttctttntc tttntttttt ttttggaan 480
ggagnctcac tttgttgncc aagcntgaat gcatggc 517

<210> 10302

<211> 596

<212> DNA

<213> Homo sapiens

<400> 10302

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cctccctctc tctctctctg agagatgggg tctactatc ttgcccaagc tggctcttgaa 120
ctcctgggct caaatgatcc tcctaccttg gcttcccaaa gtgctgggat taaaggtatg 180
agccactgca cccgccaatt ttaataagc attatittaa gtaagcaaac actctctaca 240
gcatagaaat tgcttatttg ttctaggcat tgttcaagaa gtgggatcct gtttgtggct 300
cccagagtct ctgaggtaga aaccactaga gatgaagaaa tcgaggcaga cagatgaagt 360
aacttggctg agtgcaccag caggcaagag gcagacctgg ggtcaaacc cagccagcag 420
gactccagag aatggggctc acaagccgct ttgctatacc gcttttggac tacctgggca 480
gctgaaatgc aaatcttaag gcccacctgg ttaagcacac tttcaaggc cttgaactgg 540
aaangaccca ncagggccct taagagcagc cgattaacca ccnttggtgg tgggac 596

<210> 10303

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10303

gaaatgagac agttagtttt tatttattcc acttttgttc taggtttcac tgaagaaatg 60
ttggtttcac agtgctgccc agattcccct gggctgttat ctgcatatta ctttctgtct 120
gatgggtcct ctgggtagct gatacagaca tggagttaa agagcaagag atgactaagc 180

gtgactcctg ggaaaaataa aagtgggtag aagcaggctc aggtatggaa aaccttcttg 240
 ccactgtgga ggtctgacag cttagaccac attgcaggtc acaggcagta tcggccaact 300
 ccacagggag ttctaggggtg tggagcctca tgttgggctg aatcagccat gccctgtgcc 360
 tttctgtgcc cacgtattgg ctggggactg cagagaaaga ccatggcctt aacttgaaag 420
 ccaaggccga ccttaaataa actaccagat gcaggttggc aatggtagct acctgcactc 480
 attgntgggg aananaaagt cttctntaag ggaaatctga aagcttttgg cctgggcttg 540
 catgnaactn tng 553

<210> 10304

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10304

ctggtcctaa cacaaatgtg aatttattgg ttgatttgat atttaaaata gtactttttac 60
 aaaatcatct cagaaaatat actacattta ttaaaattcc tacaaccat tgcagaaaat 120
 attaaaccct ctaaccaacc taacactcgc tttcagaggc acttgtgatg attttcacag 180
 cttccatagt tgcaaagaac aaagaaatca tcttccaaca ggggtggaat tagataagaa 240
 taatccaaaa aatattttatt tctttacaga ctacagatt gcttgatgtt taggggctct 300
 tacctaggat acctaattat tcaaggtttt cctaatttag tagacttttt cattgcctac 360
 aatctacaat attcagcaaa gtattaagga aaatgaaccc aagaacctta acccctcaaa 420
 taggtttatg gatatactaa actggcaagt acaatcttta tcttaagact tgagaacggg 480
 atgcaggaaa acaaactttg gnggaatctg gaataaggnc ttaagctggg caaactaggn 540
 gngnaancct ggatggttaa 560

<210> 10305

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10305

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ctttctttct tttttcttt tctttcttt ttttttttt tttgagagng tctcactctg   60
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caagcgattc tcttgccctca gtctcccaag tagctgggac tacagccatg ngccaccaca   180
cccaattaat ttttgggttt ttattanaga cggggcttca ccatgttggc caggatggtc   240
ttgaactcct gaccttgtga tccgcccacc ttggcctccc aaagngctgg gattacaggc   300
cttagccacc gngcccagcc aacacatttc ttatacaaca tggttttgag ttattttacc   360
tacaaccaac tccagctggg ttaatgngta gcttacagaa ttgaaccac ttttttcaga   420
cttggctacc ttttctacaa gggaaaaaag gcattttaca agacacagaa gcccctaagt   480
ttggaaatct ctgncaaaaa aggggganaa naaagacttt ttcaaggnc cgaaggggga   540
actatgggga aaggattaac ccccccaa                                     568

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<210> 10306

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10306

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gttttgctaa actaagattt ccagaatatt cttgattagt caatttctca ggaactaatg   60
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ggccctcact gagcttccag taatgttccg tggaagctgt gtgactttag gtgagacact   180
cgggctgccc cagagatctg gaacaagtcc ctcttcacag cgacagcatg atgcagggca   240
ggcaccagca aagaagggtg tggaaacttt taaaaactct gtttggggtt acctgactgc   300
accaggttat atctaaatgg ccattcccca aaagttttta agtggtgaaa ctggtaagtt   360
ctgtaatttg ctttcaaate atcccaaaag tggtcatttt ctctacaatt ctatacatac   420
ttctgtacca gacatgggca gtacaggatt ttttaatcca cctanggaag tcccctgtgg   480
tcaggaaatg gcatatttca cccttaaaag ggccctcttg ctctttgntg ggaacttttn   540
ccctcttgn ccttctcttc ttatnanc                                     569

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<210> 10307

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10307

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ctcattaaca caaatattta ttgatactat ttatacagta aattaggttg aatgtgaagt 60
tttggatagc ctgaattcac cattttcttg tgcacaaatg ggcatttttc tcatttacia 120
atgggcattt ctctttggca tccattaggt atttgcccag atattggcct ctgtcaaata 180
ttttttaaaa atcaacctag tttctattaa acaaaactaa aagtgttct atggagagtg 240
attgtatgat taccaaacac atctgatgtt aaatgtcatt aaagtgtgt ttgatgatct 300
ctgcggtttg tgctaattaa gacagagagg gctgggattt tataaatccc aagagtctta 360
tctgaacagt ctgcatataa aagttgnttt ttagcctggg gaagggtatc catgaagccg 420
gggacttntg gcattctggc cttgctgggc aagtaccagn catntttcca acggnatctt 480
catgctccat aggttttanga gctggcaagg atctggnaac aggcttggca agtttgctgc 540
aaggcnctgg tat 553
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<210> 10308

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10308

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gaaccaatca atcactggag acacacagac tccacctgta tcaaacgagg ataccagcca 60
cccanacagc cccagtccca gctccatcca tcttgcaatc cctcctccac agcacagcac 120
agcccanacg ctgcctntgg gaaggaagcc tgaggccana gttgctgagc cnttgggaaa 180
atctggaaat ttggtttccc caagatagac tccacctcct ntggaaagat gctgngctcc 240
tgacagggtt ttgtctccct gggaaggaat ccatgtcttg ggaaggctct gcatcccagg 300
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aaaggctcca cacctgcagg agggactcct tggctctgag ggactctgtg cctgcatagg 360
 ctccagtcct taanaaggac tccatgatgc angggggact ccaggccctt aggaagttn 420
 catgtcctgg gaaaggnttc caggtcccca ggcttgnngc caanatcccc agggcgaaaa 480
 actgggtcca aacaggttcc anagnccatg ttgnncaact tgaaaaccct ggggnaggn 538

<210> 10309

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10309

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 ttgggatgct acttctaaaa aaattgttgg ccatttttca gaatatacctt ttggttttta 120
 atactgggtca ggaaaaacaa atgatgtaaa aatacgtgaa taattttcta ttacagaaat 180
 gaaaaactga ttgcatcta aaagtgaag aggtgaagta atttaaccct ttcaccagac 240
 gatatggcaa tatacaatat attgcttgag ctgtttgaga aggctgtgat gtatttttgt 300
 attgacatag aaaattataa attacattga attagtatcc ataatacta tatatataca 360
 caaaccagtt ctaaaaaaaaa tacactgggt taaatttatg agtgaaaacc tcacaaggtc 420
 agtaaacaat tagcatgctt cgggccagat ttggattct attttaaaat ctagecctgta 480
 aaatgaacca ctctaattca ntagcagccg agccttttca ctgacttgcc nataggatta 540
 tttaggg 547

<210> 10310

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10310

ctttcaacaa ggtcttgttc tgtcaccag ccaggagtgc agtggcacga tcactgctca 60

ctgcagcttt gacctcccag gctcaggtga tcctcccacc tcagcctccc gagtagctgg 120
gactacagge atgcaccacc acgtccagct aatTTTTTgt actTTTTgtg gagacggggt 180
ttcaccatgt tgcacaggct ggtctcagac tcctgggctc aagctatccg cctgcttcgg 240
cctcccaaag tgctgggatt acaactggga gccaccgtgc ccggcccagag atctctcctt 300
taacaagaag ttttttgcct tgaaaatgtt tgcaaaaagc gtttcttgat tctgtcaccc 360
tgctcccaaa gcaacacgtg actacttgca actcantaaa gaagaagtgg ttgaagttgc 420
tccttagccc ttaaaaaatc attaaataat cctctaggng gatttttaac actagcaaga 480
aaagctaagg gaaatggcaa gaaaggangc gggactttcc angttgggcc acgaaatacg 540
ggntggcttt cctttanacn aananggg 568

<210> 10311

<211> 531

<212> DNA

<213> Homo sapiens

<400> 10311

aaagtctaaa attatTTTTT taatgagaag ttatTTTTTT cacaagcctc ctgaaaaata 60
gcgttataat gccaccattc aattacacgg taagacagta ataccccacc tttctatgga 120
gcccttggag gtgccaggca tgtgctaatt tgaggtttat ctcatggaat cctcacagca 180
atcctaagaa ggagatgcta tcattacccc cagttttcag atgaggaaac cttcagctca 240
gagaggtgaa gtgacttgcc cagggtcaca cagccagtaa gtgatgaaac tgtgtggctg 300
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ctggatgaca ggggtcgcgc tgttcagagg actgggggcc actcccatgg ctgcagatcg 420
aactctacaa tcaccttcaa aagngcctgg gcctttgcta tgcctntggc caccttctgn 480
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<210> 10312

<211> 571

<212> DNA

<213> Homo sapiens

<400> 10312

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aagataagtc ttttgaaaaa tagtagaaat agctgaaagg caagttcagt gtttgacaat   60
cttcaggggc ttgagggatt ataagtacct catagtctaa atttgagcat attctttttg  120
gccattttga tagggtttgg ctgtgtcccc acccaaactt catcttgact tgtggctccc  180
acagttccct cgtgttgtgg gagggacccg gtgggaggtg gttgaattgt agggggtggg  240
tctttcccat gctgttctca tggatgatga tgagtctcag gagatctgat gattttgtag  300
gggagagttt ccctgcatca gctctcttcc ctgtctgtct accatatgag acgtgccttt  360
aaccttcac catgattgtg aggcctcccc agcctcatgg aactgtgagt ccattaaaca  420
tctttctttt gtaaattgcc cantcttggg taccgtcttt atcagcacat gaaaaggac  480
taatattcatt tattctgaac atacttactg gacattnaat aggnnggaaa actctggctg  540
ggggnnnaat ttgaatgaan ctaatccttg c                               571

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<210> 10313

<211> 567

<212> DNA

<213> Homo sapiens

<400> 10313

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gcccttttca ttttctttta atgtccagag ctttcagtgt tgtcatactt taattcaaaa   60
gtcaacataa aagtttaata catatagtaa gctgaaaagt gttagtgaat tgagctgagc  120
tttgcttttc caaacatggt tccaaaagtt tattttaaaa cacacacata gtgtcagata  180
caaacgcctt ttaaccactg tgggtgggaa gagtaaacctg attgcttcca atgatcatct  240
cttccctctg cgtccactgt tctcagagtc tcaggagagta tgagaggatg tgtctcttcc  300
tttacttccc tgtttgttgt aatgagtcct tcgatgagag taattacgtg accgaatttt  360
ccataactat ttgntgatta ttaaagtttt gcagtggctg gntttcctaa tggggncctta  420
caaccaagca tttcttctaa attgggtgng gcanggtcat tcacattaaa tataccggta  480
ttaattanct tcttcttctc actactccga gccttaaaca ggctgnttaa ggcgttttct  540

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gnncatcaga agatatncct cttacct

567

<210> 10314

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10314

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 caacctctgc ctcccgggtt caagccattc tctgcctca gcctctggag tagctgggat 120
 tacagacgtg ccaccacgcc tggctaattg ttgtattatt agtagagatg gggtttcacc 180
 atgttgcca ggctggctc aaactcctga cctcaggatga tccaccacc tcggcctccc 240
 aaagtgcctgg agttacaggc gtgagccgcc gtgcctggct gattatgctt ttttaaaca 300
 gaaatgaagc atttatcttt ttctctctgc ctaaccctc cagaattcaa aaattctttt 360
 tttgangggg tgtggggagt tgggggacgg gagtttggtc tgnccctgg gctggagtac 420
 aatggcacga atcttagcac atnacaacct tcaacttccg aagtcaagt atctcctggc 480
 tancctccca agnncctggga atacaggcac ctgccaccac ggntaantnt tttttttttt 540
 ttttgcattt ttcaatnaaa a 561

<210> 10315

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10315

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 ggaaaagggg aattaaaaaa atacgcaatt gccagcaaa tgcaaatgtt taaaaaggaa 120
 acacggagaa ccatgggaat ggaacaacag acagaacttc aaacaatgag agaaaaaacg 180
 aacaaaacaa caagagaaaa cacaacagat ctgcaatcca ccaatcgctt tttcagctga 240

atgggggtta ctttaagacc agaagttaaa gtcactgctg ctggtaggct gcctaattcc 300
 gagtagctgg ccctgcttca gggctggggc accaaagctc gaggagccag cctcttgggt 360
 gccattctgt gatgggggca cctagtgggg acttttcttt aagttcaccg attactttta 420
 acagcatagc tccctntccc agtccttgct ggtgggaacg aacacgttta tgagaaccac 480
 gtcttccagt tctttaaaga gaacctgggg ctgggtattg acagatatcc gntgggtggg 540
 nttatcgat tnggttaant ttataacc 568

<210> 10316

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10316

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 acataaggca ctgggcaa atgtgacgtagg ctgggatgaa accattctc ccagagccgg 180
 tctctccac agcacaaagc tgctcctcat gcagccagct ggctgagggc cggagtggtg 240
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 aagggcgcgc ttctgtaccc agcatncant ccctgncagg gccttttgag acccgatcct 480
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<210> 10317

<211> 567

<212> DNA

<213> Homo sapiens

<400> 10317

cttttttccc agtgaattat ttttttattt tgtagagacg gggctctcct gtgataccca	60
ggctggctctt gaactcctcg gctcaagcgc tcctcccacc tcggcctccc aaagtctctgg	120
gattacaggt gtgagctacc acgtctggcc tgggataact cattgtaaaa ctggtgaaga	180
cctgggacct tcccagtaga caatgggaca gagtgattga caggatgagt tctggagtac	240
atggcagaaa tgtacagaga agtctcccag agaaaactaa ctggctggaa acagagcctc	300
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caaccagtcc tgcaggactt ggccttggaa ttccagctgc tgctgctttt taggaagccc	420
ctgctggctt caatctgctg cttcagaccc aggatgaaac ttgttgggggt gatggcatan	480
gcgtaacttc cancattagg gattctttac gaaaacctgg atctcggaag ggatggctcc	540
accnaaanat ntnaatgtgg gaaaaaa	567

<210> 10318

<211> 574

<212> DNA

<213> Homo sapiens

<400> 10318

agacagagtc tctctctgtt acccaggctt taaggttttt ggtagacaca gggctctcact	60
atgttgccca gtctggtttc aagctcctgg cctcaaatga tcctcctgtc tcagcctccc	120
aaagtactca tattacaggc atgagccacc atgccctgct gtaaattgtt ttgaacagag	180
ggtgaaatag gcttagggag gaacatactg agtctgaaat agaacatcca ggtggaggat	240
cagccatcag tgagagctgc acaaaggctc tgattagagc attgactcag cttagagaag	300
ggagtcagag ttcagacagc cacaggcaat tcctagagta agtgaagaga acaattttga	360
aaggcacctg ctgaagaaaa gcaattattc attcctaaaa ggcactggcc gacacctnac	420
attgaacatc agaaaaagga cacttctgna acaaggcttc tgnngggcca aagaaaaact	480
cttttcnggt cctaaaaaat ttcaaaaaac ccgaccnctt taatgggaag cttcatttaa	540
aggccttntt aaaanaacgt tccggaantt ggaa	574

<210> 10319

<211> 465

<212> DNA

<213> Homo sapiens

<400> 10319

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aaaagaataa aatttattgt actctcctcg cccaggggtg cccctgggaa agcctgaggc   60
tacttgtagc cgttggcctt gngcttcggc aagaaggcga agctgggggg cactggccca  120
aggagcatct cgctgatgcg gatccagtcg gctgccttct ggctggccat cagcgtctcc  180
aggtagtcgc ggcccaggta gtagggcggc cgctcgttga tcctctgngg gagccgntcc  240
agcagcccca cgggcacgta ccggcacagg aaggacagcc actcgagcag aaagcgccgg  300
gtcttctcca cgccctgcgt gtccgagccc cagtgtctca ggccgtantt ggtgaagtcc  360
cgcaggatgt ccaggccgct cggacgacga gatgtcccan tgccgntgnt ccttgatctc  420
cgggaaaagc cncnggttga gcaaggcgcc acgggcnaat atgan                    465

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<210> 10320

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10320

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atttacaaaa aaagctgcta aaactaataa ggagatttaa cagtattgca ggacacaaag  120
catttctgta tcctaacaaa gaataattaa aaactggaat ttaaaaaatt atttaggctg  180
ggcatggtgg ctcacaccta taatcccagc actttgggag gctgaggtgg gaggattgcg  240
tgaagccagg agtttgagac cagcctgggc aacaaagcga gaccctgtcc acacaaaaaa  300
caaacaaagc caggcatggt gggatatgtc ctgtaatccc agctacttgg aaagctgagg  360
caggagccca ggaaagctga gacttggaaa gctaagacct tgagcccagg aattcaaggc  420
ttgcagtgag ctatgagcat gccactgnac tctanaatga gtggccgaaa aaataaacct  480

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ctatccctga ggggtactatg atgcatacnt gactggnttt gggaaaaact ttaacccttt 540
ttcccnnggt ttaicctacc taacaccan 569

<210> 10321

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10321

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ggttatcaca ttcccacact cctaataccc aaaaaacaag aatttcactc catgacacag 180
aggaacattg aatggtagct cagaaatgtt gatagctgag gtactgaaac taacaaaagg 240
attttggttg tccttgatta ttctgtcctg tgatgaataa aatctacact aaaggacagg 300
taaggaaaac ttatagcaga aaaaagacta gatgtaccaa acacagcagt acaaaccact 360
ccttggcaga catgtgcttc taaaagaatg ggggcagtaa tcaggtagct gaactactag 420
gctactgnca ctcccagccc atcccgaatt aaatagnngg gaagggtaat agngtagtaa 480
gtattgatcc aacaaagaaa ggntttaccc ccattcaagg gaacattggc atggnttnat 540
naaccctggc ngggaataan aagcctgga 569

<210> 10322

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10322

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gcaggggctt ccctagcttc atatcccca ggcccctgcg cctctggaat gtaccaacaa 120
ggggcagggg tttcaggggg ctcagcctct tcatggggca ggccctcagcc ctgggtttgt 180

cacagtctgg ccttgaattt gcctttggcc ttgaccttcc gacaggtgct aggaattggt 240
 ccgacttcaa agggcagaga caacaaggca cttccagctg ggggcctcgg aggcacagga 300
 gagcaggaac ctttcttggc ttcaggatgc tgggtgccac cttgaaatca aagggttcgg 360
 tgggagggaa aatgaagacc ttaaccctg ggtaaaagcc ttaaagggt tgcctgtggg 420
 ccacagggcc ttaatgccac caacttggtt ggcttgcnc tgaagacctg gcccttgggg 480
 tcgaatcatg gggaanaagg cacttgncc ttgntggaa gcttgggaaa tgnnacggct 540
 ttcccaaaaa ccttnttgg 559

<210> 10323

<211> 565

<212> DNA

<213> Homo sapiens

<400> 10323

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 ggaggagtca acatgagaga gagttgctca cttgagatgg aggcgggcat gtggtctgag 120
 aatgtgccct ggccaacagc cagcaagaaa acagggacct cagtcctaca gccaaaagga 180
 agtgcattct gctaacgaca tgacagagcc tggaagtggg tttttgccag agcctccaga 240
 aagaaataca caggggctga caccctgatt ccagccttgt gctgtttgct atctgtttcc 300
 tatctgatac tctttaccag gcaggcttgc tgggtttctc aacctacagc tagtaaacia 360
 gtgttgtttc atgctgctaa gctagtggta gtctattaca gagcaatccc aaaccatccc 420
 caccacacia actggccaag taagagatct tcttngact taataaacat accttaatat 480
 atgcttatcc tgattaacat aaattccata tatatatata tatgaatgac agcttntaaa 540
 agaagtcnc nttctntntc aaggn 565

<210> 10324

<211> 474

<212> DNA

<213> Homo sapiens

<400> 10324

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agcagccttt cctgctccca ctttaaagat ccctggtggg ccatgcacct ccaagatggg   60
caggggagct acacccattg ttacaaatag gaggcacag actctgtatt taaaaacaga  120
actgtgcaat gagaatgctt taatcatcac ccacacagac gagcggaagc tacagacaga  180
gaaccactac ggatggtgcc tggaacagag gtgagaatgg cccaaaactc tgcctccggg  240
aaaggtgcca agtttacagg acttatcgtg gtgccctcac cagaccctc ctncttctc  300
tctcctcctc ctcctcctcc gtggccgctg gcggctcctg catctcctct ggggaagcct  360
gaggccggt cgggtaactt ctgctgcctg agacagtcac acgtgcttgg gacctttnac  420
ctgangtctn tgggtgctga actggantgg angtanctag gcntgggaaa aaaa      474

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<210> 10325

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10325

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ggagagacgg ggtctcgctc tgttgcttag gctggtcttg agctcctgac ctccagcaat   60
cctcctgcct tggtttccca aagtgctgga attacaggca tgagccactg tgctcagccc  120
ctttgaaaat attaattctg acttcctata attcccttct atctactcat gcaatacaat  180
tatattttct aatatactta aaaattagaa aattataatc agagtacaga tgtttctacc  240
agattaaagc tttaaattca acgtttaata cctaagcttt taacctgtct tcagcaattt  300
caaaaagcta atacaaatga tcaacaactt gtatatatat ttactagaa gtgtactcta  360
ccatttctag aatacgtggt tagctttatg acataatttc aaggacgtat tagaccccca  420
aatattttaa aaagcngaaa ggacctatat nggatgattn aaaatctcat tatectactt  480
cttgaagagc taaaaaaaaa ncaaccaaac nentaccccc caagtntta acatttatcc  540
acngt                                             545

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<210> 10326

<211> 442

<212> DNA

<213> Homo sapiens

<400> 10326

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cgcttcctgg gaaagaaaat ccctgtgaca tgaaccgatg aaggacaga agctatcaca 120
gatgctacag ggctcagaga ggggccgggg caatctacac tacagaagta aaagcaacgt 180
aaaatgtttc tgggtttcct ttcccttcac tcaaaaccac tatttcctta gttctatcaa 240
agtacgtaag gggcataaaa tagactcagg aactcggggc taaatcatcc aaaaatggag 300
ccaaggetct aactagaaac tgtctctgtc gtccctgttg gcctcaaac cccgaggtaa 360
aaggctggtc tggntcctc ccaggcccc tggntccan nacagtgcc cgtcctntgn 420
gttcatcatc atcgnntttt aa 442
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<210> 10327

<211> 580

<212> DNA

<213> Homo sapiens

<400> 10327

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acaggagcgc atcatcatgc ctggctaatt tttgtatatt cagtagagac ggggtttcag 180
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cgctgccttg gggacttgcc ggccgggacc accacaaagg gtccctcgaa ggctgcagcc 420
gcggctgcat tacctctggc ctgctgcca ggtccagcac ggntgcgccc gccgcatcat 480
gggaaccccc cggcgggccc tggctggtga ngatgatccg ttggnnant tggcaaatg 540
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580

<210> 10328

<211> 432

<212> DNA

<213> Homo sapiens

<400> 10328

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cacaggcgtg caccaccatg cccggctaac ctttgcactt ctagtggaga cgggggtttc 180
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actagcattt gaagaaatcc ctgcttctta ctgcctgccc ctcaaaacaa caaaaggggc 360
caggtatggt ggctcatgcc tgtaatccca acactttggg gaggctnang ngggnggac 420
acctgangnt gn 432

<210> 10329

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10329

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tctggtgagg gagagacnca nactntanac agatatttcc aaatagcagg taagngctat 180
aaacaaaggg aaacagggtg atgggataga gtgacagggg gtgggatgag ttgctatatt 240
anatgaagng gtccaggagg gcttccctga ggagnggca tctggtctga gggctagaga 300
atgtgaaagc agctgtcacc tganagctgg agaaagaaca ttccaggagg agggagcatc 360

aagacccaaa gccctgaggc aaaaacaagc ttgccatggt ccaggaacag tgaaaggaca 420
tccattgacc taatctcaaa agcttnttgn ccaaagacaa gcaaagggga cccagttccc 480
ttgggggggtt ccaaangctc tgtgcctgac cccanaggca nangntcctt ttttcaggct 540
ggc 543

<210> 10330

<211> 586

<212> DNA

<213> Homo sapiens

<400> 10330

gacagagtct cactctgttg tcaggctgca gtacagtggg gcgatctcgg ctcatgcaac 60
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ctacaggcat gcgccaccat gccagctaa ttcttgcat ttagtagag acagggtttc 180
accatgttgg ccaggatggg ctctatctct tgacctcatg atccgcctgc cttggcctcc 240
taaggtgctg ggattacagg catgagccac tgcgcctggc gagaaccacg actttttaaa 300
ggaaaccttt tctcatgtct ttattattca ttgttttga aaatatcatc aagattaagg 360
atcagctaag aaacagaata attacatct tacatttcat aattttatct atttttgctt 420
ataggggaga cttgagatta aacgactccc attggtacat ttttaciaat attttggttt 480
caagaaaagc atgtccattt tgancttcc atgnngnaat tcttgagaag cctaaggatc 540
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<210> 10331

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10331

ggctttctgg gtcttttatt tgtacccatg tgtctgtcac accatgaatg tacctgggga 60

aatcaactga ccaccctgaa catttcacgc agtcagggaa caggtgagga aagaaataaa 120
 taagtattc taatgctgcc taggtcacc tcaaccccca ttactggca caattgggtg 180
 gagagaagg aaggggtatg attgtcctga tggctcaggg ttgcaggagg ttcagagggg 240
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 gntcactctg ggctcaggtt tgccatggct tcctttgggc caaacatagg ccctgtcctt 360
 agtcctgtgc cctgtttgac ttttggccag gaggcctttt tgtgctgctg ctgttgcagg 420
 gctagctgca tggcccatat gctcantggc cccatgtagg ccantgagcg gnacactcgc 480
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 aanc 544

<210> 10332

<211> 547

<212> DNA

<213> Homo sapiens

<400> 10332

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 tatgctactg gccccgaggc aggcgagggt aggaagaacc ggggtgtccgg ccttttagagc 180
 gctcccagcg aacacagtcc cgagtcctgc ggggtggggg cccctgccag ctgccaggcc 240
 ccttctcttg tggaggacct tcaactcctt ggctatgggg ttctggcttt aggtccatgg 300
 gctccttgag gggccctca ggaggtggca gttcctgggt gtcacgggta cctttagggg 360
 cgtggcactc cctccctttt ggggtgcctcc gttcgggctg tcgccaggga cctcgactgg 420
 gcttgggggg atctagcata gctttctggg ttctgcccga cctttgctga ttgacctgg 480
 tccctggaat cttctnaata tgtgctggtc gcacagcna agaagtggca aatggattgg 540
 ccgcttg 547

<210> 10333

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10333

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gagtgttttc agtattttat taacaaatga gctggcaaga ggacaagtga tctagtagta 60
tcacccccac cctcatggag cagccaccac aagcccacca tgggtgggggg tgtccaacat 120
gctctgctgg ccagttccc agccgatccc ctgagtcttg gcgcccgttt agtcaccctt 180
cagctgcttg ggaggcagga agagacttcc cctcttcacg aggtaaggga gacaaaagca 240
gccatttgga tgccagggcc acaggggcaa gccatgccct atttcttttg agggacagaa 300
tcacttcttc ccaaggccag acactgtagc ccatgggtact cagccttcta gaggagggta 360
gcctaacaga ggagaagccc tgagtggaag cagcattttg aaggcatcgg cattcttaga 420
ccagcttaaa actgagggca ttctctatct ttggcagcag acagtgagac ttcaggatta 480
aaattaaaag cccgngngnc atcctttctt gcattacttt ccacaaaacc ttggaggagt 540
caaatccc                                         548
    
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<210> 10334

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10334

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ctcctaaaat tttttattac tttcagaagc aatactgttg canggtatca acaaccacac 60
tatgtaccca aataaaatga atgtcagaaa taaaaatact gtcacaaaga agcaccctt 120
attggaagat gtattgaaga agtcttatta cactgaaatt ttatggcaca gatcataaaa 180
tcagagtctc ttcacacata ataacaattc atccattttg aaatgagtaa cttctccttt 240
gtagtgttgc tagtataaaa aaaggtacaa gttcaaaata tgctggcaac atacaaaagt 300
ggccaatagt ttigtcttt gagagtacac cctgcagttt aacaaagact ggctttgaat 360
cttcactca aaagcacact tctcttccaa aaagatgact gcccaactga tgccatccca 420
gagagcagat atcccaacca ccaacttgaa atggctgaac aaagaaaact acccaattac 480
    
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tttaaagatg gggaagcaaa atcaatggcn anggttttaa aatcntagga attttaaaat 540
caat 544

<210> 10335

<211> 550

<212> DNA

<213> Homo sapiens

<400> 10335

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tcctgcctca gcctcccaag tagctgggat tataggcgcc cgccaccacg cccagctagt 180
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caccgtgccc gaccacagct gttttcttct accctaccac tggcgcttgc ctttgaaatc 360
tttcctgggg gaagccaaga accctctcag gctaagctcc agtgtcgggg cttgcccacc 420
ctacatcaag acccactaaa gtcagtggga ttctagagag ctttaagtgt cctacgtaaa 480
ggtacaaaaa atcacngnga tgaccccaaa tgtaactatc caaaagggga gacaggaagg 540
ggtntaagct 550

<210> 10336

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10336

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agagggagcc aggaaaggct ccccgctggc ctctggagtc caggagcctt aggaaggctg 120
aaagccagcc ctgaccagca ggcttagttg tcctgagaag agccagttag gccacctggt 180

ccagttcacc aggtttccca gggaagcaca ggcattctctg ggtcccccag cacagtgcc 240
 gggaagacac ccccaatccc catctgaaca ggccgagggc agcatgggaa aggctcagac 300
 tgcaggttca tcccgcagga tggtaaggac acgtgctcct ccctcgcaga gcaggctgtg 360
 cacagcccgg cacagggcca gccagggcgg ccccttgccg tgtcagcgct taccangggg 420
 aggagttcaa ccatcaggac cttttccaag tggatcttnt tggtcagca caagccactt 480
 gcactttgan ggcccgccag ggtcttgaac ttctgggtgc ttgagtagac aaccactggg 540
 ggctcatcan gctccgntnt acc 563

<210> 10337

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10337

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 agcgtctgct tntggtgagg gctttagggt aattccattt atggcagaag gagaagggga 120
 gctggcatgt gcagagacca aatgacaaga aagagagagg gaaggagct tacaggtttt 180
 tgtttttgaa agcaaaaaca aaaaacaaac aaacaaaaac ccaaccaaac aatagtactc 240
 ctccactnt atgctaacgg aagacttntn acaccagcca gttaaacaat gaaattntta 300
 aacacncagc ctgctggggc tgcattgcaga gctaaaatgc aggtgtgctg acttcttgga 360
 gctggagcag aggaaaacat naaaaagcat atctggaatc tatcacagct ttctttctta 420
 agcaataaaa aatgcaaatt aggtttcata accccattt caatttatca aactttttct 480
 ggaagaaatt tcatttaatt atggattncc ttaccaggga ataaaacntt ttacaaacc 540
 cttttnangg nttncg 556

<210> 10338

<211> 555

<212> DNA

<213> Homo sapiens

<400> 10338

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 ttcattctctt ggcaggctgg gagtccaagg tcagtctagg caggagggtt gcttggccta 180
 agcagtcaca caattttcac cgtcttgagc atatctgaca agacatacgt gtcaccccaa 240
 cccctcccag gcttccctcag ggtccgctcc aaagcctggg ctgtttctag gagctctggt 300
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 attcgccgga catataggag ggggaacact gccttgagcc cagccagcac tgagtctttt 420
 agccccaagt ctcggcacac aaggttgaga ataaaacacc ttcaggagtc aagatctttt 480
 aacctttgta gaaaaaaatg nttcccaaatt gctggggccg acactaattc cagngttggg 540
 ccctactggc aacat 555

<210> 10339

<211> 487

<212> DNA

<213> Homo sapiens

<400> 10339

ggctgctgct tccgtttctt tattacctga gcccatccgg accctnaaga caactggagc 60
 ccaccctgcc ctggaaggct canctcccct gcttgaggac nccgcacacc tgttccagga 120
 cgtgacacag gctntggctc ttgggcgtcc tgctggccaa ggagatctta agcttgtcga 180
 ggtaggtgtg ctcctggctc cagggttcct ggagcctnac gaggtcaggg gaacccttgt 240
 anaactccac cagcagcatc atntcgtgaa ggatgtcatt ggtcaggaag ctgtccttga 300
 cgtaggccat ntncacatnc atggggatgc catagtcact gggcctttgc tcgggaggag 360
 gcatnaccga gaaaggcgag atcttggact cggggcctgg gttgccaaaa tagtaaaggg 420
 gagcananca gggccaaggc anggcttga aaccatttgn tgnaccctg aaancncaac 480
 ttggtaa 487

<210> 10340

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10340

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acagagttta caaataagca gttttatfff caaaagtaca tagtaagtcc agactgggct   60
attgccaaag aactaatctt tagtctactt caacatgtta catggtattc ctgactctac  120
agactatcag catctgtgga ggtagctcc taaaggfccc aaagaacagg aaacatgcag  180
gaataaagga ctctcatga agagcaggf ggcagcgagf ggcaggcctg tatcttctca  240
gcaaagtaag gattgagfat agagagctgt ttgtcttaac tgggcttccc tgaagaatct  300
gagccaaact ggaagaaacc agcctcattt ccagtgfftga gatgffttagct gtacagtggc  360
tgtacaactg cagagfffat ttatagaatt agaaataatt ftttaaaatt ttaaaagggt  420
ttgtgtaatc attaaccaga agatgatatt cacaaattct ggtaaaaaat ttgactcttc  480
actatcacca tatcaacnng gaaaccaggf ccattgccanc caggaggagc tgncttanct  540
gccattangg aagttgnccc                                     560
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<210> 10341

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10341

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catgtacaaa gccaatcatt tatfftagcac taaaatcaaa ttataaaaac aacaattcca   60
tcttaaaaca ggcatffftaa aagcattfct gtggtffctaa gfftgcatca agacagccta  120
agfftgcatc tgcacaatct ggatacccaa atccctctat aattfcaaaa gacaaagaca  180
atffftgcta gfftgtaggt gfcaggggga agcagtgatg ccctgcaaac agfctaatgg  240
gcccaggga a ccctgffftct ffctcaacct gaggffgcat cfftgatctc caggaaaaga  300
gattagtgct tgcttaacca ggttcctagt aaatggfcag ggatctffta tgcaataatg  360
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ttgcaaaagt tactgaagag gaaaaaaaag cacaacggag gcttcttgcc catttacact 420
 tgcaatgtta gattttgaaa acagggccct tcatagtcag cacccaagtc ctggactttc 480
 agatgtaatg cangctggnt aacaagccct taatactaca ttggaatttc naacgacttc 540
 ctggacagtt ttttaaan 558

<210> 10342

<211> 528

<212> DNA

<213> Homo sapiens

<400> 10342

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 acagagttga tgtcaagaca aataggtttg aagttataga tgataaatca ctttgtctta 120
 ctgaaccttc ccttgattac gttagagagc atccctggta tgctcccagt tgaatcttaa 180
 gcatgatgtg tgtccgggtg atataatcgt aattcctttc tgtaatect cgttctctct 240
 ctttttttc tttttcttct ttttctctgg actagcaatt gctgtgctgg tacatgggtc 300
 ttcctcagaa agtggttctt ccttaatgtg tttcttttta ccccttttct tcttcttctt 360
 cacagatgtt tcttcttctt ctgccacttt ttcttcttcc tcttcttcaa ctttaacttt 420
 aatcttgget ttttinnget ttcttttcaa gtaatttcat ccctctttat ctaccnggtn 480
 ctaattttgc gttttttaaa acaggttggn angtgtngga gtcacca 528

<210> 10343

<211> 555

<212> DNA

<213> Homo sapiens

<400> 10343

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aggatctcct atggagtgtg taggtgtcca cgagtgtacc ggtgtgcggg cctcctgggc 180
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 cccacctgcc caggctcagg agtcacaggg gtctgcacag tcctttctgc tgtggaacac 300
 gtgatagatg ctggtcgggg ggaacatagc aacagcgccg agcagagagc ccacctggat 360
 ggccacgccg gctgccagca atgccggccg gccccgccat gcagcaggga gctggctgca 420
 ccttacgtag gagaacacgc caagacacag caccacacg agcaccacg aaggaccacc 480
 cccggcgang ggcccacaa gggccggcaa gggcttaagg aatgcancgn catnangaa 540
 nccccacaan aaaac 555

<210> 10344

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10344

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 tacaggcacc tgccaccacg cctggctaata ttttgtattt ttagtagaga tgaggtttca 180
 ccatgttggc caggctgttc tcaaactcct cacctcagggt gatccgcctg cctcgacctc 240
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 tccagagaca gggagctcag tgcttctaga gtccatctga ccagtgatcc gcatttggac 360
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 gctggtccaa gctttgaatg cnagtggctt gcgggcagcg cactggatta tctttcccga 480
 atgacttntg aaacacttaa acgcccacac cctggatctt cctctgntag gctgccattt 540
 aaagccagtt ttgagccntg 560

<210> 10345

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10345

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gaagcaataa aagcacagat ttattgaagc aaaagtatat tccacagagt gggagcaggc   60
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tttctattg gttacaccct atgcgccacc aatcggaggc cgaagtgaag gctcccagtc  180
tccagactct tattctccta gctcaaagaa atccactgat ttcctctgta gcactctcag  240
gttccatctt gacaacttcc tctaaatccc caggggaaga gttgtttaga gactcctgga  300
tgccctgagg gagcggtcc agagcttgct tccctcctct gttttcaca cgggtccagcg  360
ataggcactg ttctctgaca atccttcttg gcactgttta tcgactgggtg gaggccctgg  420
gctatgttcc actttgggga aaacagtacc aganagagga gatagttcct gggctctaaa  480
ttgggttcta ggccctgaaa ggcatttnc ccatnagcccc aggacaagca tgnnccatt  540
catggggggc cttatt                                     556

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<210> 10346

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10346

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gtgtagacta ctttctaata tttttatfff ttagcaccaa aaggagaaaa catattgtta   60
caaggctggt tatagtgtct caatggacac tgcaaagaac tacataaaag aagtctgtct  120
caagcagttc gtatttgagt cagtggtcag atggggcagt tgcgctcagc tgcagtcctt  180
gactccggaa acactgtgcc tctcaaatga tctagagctc atccttggcg tacatgaggg  240
gcagttgttg ttctagtacc catttagccc atggctcttc aagccaattc acactgggaa  300
aaacacaccc tcacaagatg cctatccatt tgagttcata caggttttag tagctagaac  360
taaaaaacat ttttaaaatt atctaaacaa attggaccaa aagaaaactt gccatactta  420
aacngnatat atggtccttt ttttggctga aagatcaagn ttgggctntt ngaccttacc  480
ggtactaagg ctnggaaatt gccggaaaag gttttttaac nttncatant ttaaggagcc  540

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cat

543

<210> 10347

<211> 511

<212> DNA

<213> Homo sapiens

<400> 10347

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gccaaactac cttgttttat tggattttga gtaaaaacat gaaccatgtc aaagtttcca 60
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cctctatcag gttttgaggc gggttgagcg ccgaggtagt gggggctggg agggtcgagc 180
cgtcaccttg ctgggtgttt tgtcctgggt gttgggctgg gaggggtggc ggccgctgga 240
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gacttgcaat gggaaagctg tgccctgaa ttgctngat agaacttgat gcanatccgg 420
agatatagcc catnacgggc ccaggaagtc ncaccatatg cngaattggg gcttganggc 480
tccgagccct tcaattcttt ttgganaatn t 511

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<210> 10348

<211> 428

<212> DNA

<213> Homo sapiens

<400> 10348

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gaaactggaa taagtgttta ttttctatta ataaaaatga attgtgacaa aagtggactc 60
tggtttcccc tccccctcn cccccacccc tctgggataa aaattttcca gcattgccag 120
gagctttcag gnacacatta aagaataaaa ngaagttaan cngctggagt ataggatagt 180
atnnganttt caagatcacc caaagctgca ctaccgtccc aaagctgacc aagtagaata 240
aaaagaanag gaaaanaaag nacaacccat gcgcaaagat agacatttgc ttgatctgct 300

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ggctcagggc caaatgttta atttgcttct ccaaagncgn tcattctcaa aagcngattc 360
 tgggaaactg atgccnctag nctaaaagcc cactggccat gggaggggca tnaatttccn 420
 cttggcca 428

<210> 10349

<211> 546

<212> DNA

<213> Homo sapiens

<400> 10349

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 acattctgtg ttgtactgta ttgttgttca ataggaatta gcttctgtca tttgctaaaa 180
 gaatgagtag tggggaacag gatatgttgg aaatttcata acgggtaaca gaaccattct 240
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 ttcctctggc ccgaacagct tgggactgct gcagacacag ctggattcac aacgcccttt 420
 gcctganggg ataatcttcc ttttcctaata aatttgcccc attnggggcc anaaaacagg 480
 ttntccaagg agctttnaagc ttggacttgg cctttgccct ttttttaatt ggacctggnn 540
 cctttg 546

<210> 10350

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10350

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 tgcaacctcc acctcccgaa ttcaagcgat tctcgtgcct caggccccca agtagctggg 120

actataggca tgcacatca tgcccagcta atttttgtat tttagtagag acagggtttc 180
 accatattgg ccaggatggt ctcgatcttt tgacctatga tccacctgcc tggcctccc 240
 aaangctgg gattacaggc gtgagccacc atgcccggcc ccaggatatt cttctgtgca 300
 aagtttagga aactccatgc acttntcaaa acatcagatg ctggggactg gcttatacaa 360
 gaaatatgga gaacacatat aatagatfff agccatggct aaattttcag aattttaccc 420
 gagaccgata agtgngaan aactccctga aagttggatt taaagtcana aaatcinttt 480
 cggggggggg cgtttctant attttgaana actntttcaa atggctggca aaaggggcaa 540
 tnccccctt c 551

<210> 10351

<211> 506

<212> DNA

<213> Homo sapiens

<400> 10351

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 cgaggtacca gtcctcagtg acctcgggaa cccaaccac ttaggtccca aagccacaag 180
 ggtgcccttt gtcttgctgg gaagctggct gagggcctgc cagggtgga ggaccagctc 240
 tccgcacag ggttcagggc ctctcccaga aaaaagaggt tttgaagtga aaaggcaacg 300
 aggggccaga gggctcccca ggatgggtct tttggaggta agattttgat gccacaacg 360
 catgcaaggc taagaccccc aacttagcca acgaagccca tggnetcana aaggcttgaa 420
 ctttgnnag gccgngncc agatgcatct ggacgggtnt ccaataaaaa gccccagggt 480
 ttgctacctg gtacctgctg ggctnt 506

<210> 10352

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10352

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ggatatggtg ttcccgattt atttgttttc aggaaacaga caattgcatt gtcatacatg   60
acttagaact gcttacttaa atgcacatta ttagattaga ttaagtttct cttacaaaaa  120
cacaaccatg tcatttaagg cgaaaaatct cagcttctag ggagacaagt taatatttat  180
gatatttcct ctatctgatt tagtgaaatg atccattaat atagttagcc aggtttcatc  240
atccttacag ttttgctttg caaatggcat gagaatttgt caatttgtgc ctgatttcct  300
cctctctagt agacttattt tacttgcaaa ttaagaactt cagaatcact gaatcaatgg  360
gaggtgagaa aggcacctta gaacagatca ggacttaaaa actcaataaa ggtattttta  420
acaaaacttg caatctacaa atattaatta agtgacaaaa tgcaacatgt agatcagact  480
tgcaaaattt tttaggtnac ctatccangg gatatttgca ntaagtntag cttggacaac  540
ctcntggt                                     548

```

<210> 10353

<211> 366

<212> DNA

<213> Homo sapiens

<400> 10353

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gagacagttt cgctcttggt gctcaggctg gagcacacag gcacgatctc cactcactgc   60
aacctccgcc tcccgggttc aaacgattct gctgcctcag cctcccgagt agctgggata  120
acaggcgccc gccaccacgc ctggccaatt tttttttagt ttttagtana gacaaggttt  180
caccatgttg gccangccgg tctngaactc ccgatctcag gcaatccgnc tgcctcagcc  240
tcccaaagtg ccgggattac aggcgtgagc caccacgccc ggctttattn tttnttttt  300
gagacagagn ctngntctgt cacccanact anagtgcaat ggtgcgatct cagctcactg  360
caacct                                     366

```

<210> 10354

<211> 504

<212> DNA

<213> Homo sapiens

<400> 10354

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ctcaaaaaca atgtttatit taacacataa aatgtaccat ctagcaccaa tgcctgtaaa 60
taccagaatt ccatccggtt actactcttt ggaacaagta tgattaaagt ccttgacaga 120
ttattgtata tgagcgaatg gcttcataac ataaaacaga gagacacaga acagaaattc 180
atttggtata tacatataga actacatttg tagttattca aaaacctttc actgcttcat 240
gtaaacaata ccagtatitit taagccagat tttcctggaa catatacata aagtgcata 300
gccacgtaag tgcataagcc tgaaactggg ctttctattc tcaactcatg ctcaaatgaa 360
aaatctgtaa agatatcttt tggttcctcc aatcttctga ttggcttctt tagcaactca 420
ttacagnncc aatttacctg attaaaatcc catngacatg gtatggtnng aggaaaaaga 480
aaacctttgg ccaatttnan nttt 504
```

<210> 10355

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10355

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gaatgaaaac catgaattta atngacatt gggggagcct catccttccc tttttaccac 60
ccacccatcc agcctgttgn gagttgggtg agggctgccc ccagtctccg tcttgccgnt 120
ntgggtgcca tctgttctt ttgagctcag tcagcctcct gggctcgtct ntntgngaatt 180
ctccttcttg cgtattcata tagngcttgc ttgcgctcct gcaggctntc ctgccgggcc 240
caggaanact tggcaaatgt tagggctgtt ggctgagggg tcaccgggcc anagctggga 300
aactgaggng atcacaatgt canagggtt gcggagtcatt catcattaaa cacgcattga 360
atgccttgga ggcanaggct gtgggtaggg actgagttcc cttggngatg tcttcaggca 420
tgaaagctac ggccccctca acagattaat gatagcaagt ctacacaagc cagtcttggc 480
cagggtctntt tgggtgaccc aanggccatg ggggnaaant tncctgactt tttgagccna 540
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angtg

545

<210> 10356

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10356

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accatggaaa aacatctgga ttccatttgg tagtttaag gtttttgaaa atgttgatat   60
acacaagctg tacttggagc tggataacag acataggagc tggatgacag acatactttt  120
attcttttat ttttgagatg gagtttctact gtcaccagc ctggagtgcg atggagcgat  180
cttggtcac  tgcaatcctg cttgggtgac agagcgagac tttgtctcaa aaaaaattct  240
ttaaattaaa aaaaaaaaaa agctttacta ctccctgtgg agttcataaa aagttcttcc  300
ctttgtttta gtcattcaga gtaaagtcac agggctcaaa gtctttccgg aagcggcgag  360
ccagggtctc ctgcttctc tgctgatctg acactggctn cagtcagact taccaggaac  420
attaaggatg gcttccactg ccaggacctc ccttccaact gcaangaaa atccttttaa  480
atctggggaa aagctttctc cggggcaagt cacnttaaaa aatgccgntc cngctggcaa  540
tcggttgatg naaangg                                     557
    
```

<210> 10357

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10357

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gagatggagt ctcactctgt tgcccaggct ggagtgcaat ggcatgatct gggctcactg   60
caagctccgc ctcccgggtt caccgcatc tctgcctna gcctcctgag cagctgggac  120
tacagggtgc caccaccag cccggctaatt ttttgtatt tttagtaaaa atggggcttn  180
accatattag ccaggatggt ctngatctcc tgacctcgtg atctgccgc ctcggcctnc  240
    
```

caaagtgctg ggattacagg catgaaccac cgcgccccgac atgcttggtg atgnnttagta 300
 aacagcacag tcaggttacc aggtagcttt aaggagagag tccactccaa aaaccgggtg 360
 tggcaggatc cccgtcctgc atttcctaac ccaactcgtgg tctaccccca gccttttaaag 420
 tatggccttc tgaaaacctg accctgggaa gctgggaacc tnaatttggg caaatccaat 480
 ggaatnacct gatgencana atttaactta tccaaagggg aacttatggt taaagccctn 540

<210> 10358

<211> 416

<212> DNA

<213> Homo sapiens

<400> 10358

gagaaaacca tttttattat cattaccacc cagcttatct gtgctggatt atgtacaaaa 60
 tggccagatc ttctaaagaa catctacata acatttcttt catgtttcaa gagatgaaaa 120
 taactgtaca aggttaagta caaaagtaca caagacagcg gacacgaaaa aatccatgta 180
 tgagatttta tccccacctg cagcttttat atatttgaaa agtagaattc atgaactaaa 240
 aaatattatc cttctatagt cctgtcaagt ttaatggaag tgggtttaac ctgattacaa 300
 cactaacacc agtatcactg atctgatatt tacaaaaatt tggatttttc aataaattaa 360
 agtcaatgca acacccatgc aagctagagt gctanctggt tngnngaaca nggnen 416

<210> 10359

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10359

cttgtttcaa gtccaattta tttcacacaa cacacaggct gctgaggga tccacctgca 60
 ctgcactcag ttgaacttcc ggcccagtgc cgcgtcagag actaaacat gggagaaaagt 120
 tcacaccctg gcctgggcca cccaccttca gctctctcct gtgcgtcagg acgcacgctg 180

gccccaaagag cttcactcaa cacggctggg tcctgggcgg acgtgggcac agcacttgcc 240
 aggcgccccct ggcaggggct cttctcagtc ctccgcaccg ctctcctctc cgctgtcttc 300
 gtcgtcgacc ccaccctcgg cgcctcaac ctctcactg tcctcttcgg agtccgtctc 360
 ctccagccac tccagagttt ctgggtccat ctccaccaag gccttccacg cctcatcctg 420
 tgcangtcca ggcagtgcag gtcgttaagg tgancctggcg gcggccgggt tnaaaatgcc 480
 ccatagacta gagcacccat tgcttaaaag cagcatggcn tggacctgga cacggcccag 540
 tgcnggnttc cggttntna aggt 564

<210> 10360

<211> 481

<212> DNA

<213> Homo sapiens

<400> 10360

ctaatttccc ttttaattgt agatttaacc acagaactgt ctcgattttt ataaaaattg 60
 atcccaagat ccaccttctg ccgtggctgc cacagtccag gctgagcttt tcctcctgag 120
 ccacacacgt gtgttcccgt ccagcccaaa ggggagagggt gtggggcggt ggggcgggga 180
 ggcgccttgt gctgtggcac tggacacggt gctcatctgc aggatagcca cgaaggcaaa 240
 cggcacagac gaagacaaca caagacacac gagcctggtc ttccatcctc aggactaaaa 300
 ctgcgctgag agcaattcac ataatctctg agaaacggct tccttacttg tgcgcagcgt 360
 gagccggtac atcttgggct tgcaggttcg gntccaacgc agcangcatn caatctgggt 420
 gggttttcgn gtggatgaat tccagttcca cgaaantcca ngattaggac aacttnttca 480
 a 481

<210> 10361

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10361

gaaggagtta attacatgta ttgattaatg gatagggtaa acagacgaaa atcaataaac	60
ctgagccagg ctgccccaga gtgctcccat gcctgggctc tgtctgctaa gagggtcaga	120
ggcagtccttt cctgggtcagt gccaggatga agccagtcct gggccagggt gctcaggcct	180
ccagatggat tgccctgggt ggtgacatca gcatgggcta cagatcagtc ctaggatccc	240
gctcatcact cgctatcggc ctcggcctca ctgcctgtgc ctgcccagcc atatgggtgc	300
aatggcctgc ctgagaggag aggatactgg ggagggggag aaggcctggc acagtactgg	360
ggaagatgga agcagcaaac aaggctgtga acacagccag gatcaagcca gtgganccag	420
tgcaaacaca catgctcana tganggtggt ctccctggaac ttttttccaa gtaaaaccgg	480
taaagaggaa gggcttaagt cnanggtggt aacctgccct taanaccatt tttggtacan	540
ttgnccaatg ccnggggctn	560

<210> 10362

<211> 534

<212> DNA

<213> Homo sapiens

<400> 10362

ccattaagga gaacatgaat ttccttgag gtgaggctcc aggtaggac agggcctggt	60
ctgctgaagg ccacaggaag caaatggccc ccagtcacc tttctgtccc tgccatgaag	120
ggccattaca ctggggtggg gaggtcctca ggagggtgtc acacatagcc ttaggcaata	180
gcaagtcttt cctattcagc tctgtccagc ctccaattga ggagggataa tgggggtgag	240
acagggttgg ggggtgaagt gccaccaaac ccggcaaaag tgagcagtc catcttgtct	300
gaagttaaca tcatccctc aggtataaag cctctcctna catcgacttt ggtaaaccag	360
tcagtacag gccttgcca agctganact tggcaaaaac ctgaaccaag tgcccnccgg	420
aaagccataa tcttancctt tgnccctcca atgcttaaaa gtcacaatgt tccccatggg	480
catccctttt cctgaatcng ctntngtgt gaaaccnggc cagcccgggg ccta	534

<210> 10363

<211> 454

<212> DNA

<213> Homo sapiens

<400> 10363

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ccagtgaag acaatatata tatatttggg ggtagaaata attacaaaaa tactgacatt   60
tctaaagcat tagcatatit gttacaaaca atcaccaact aatccccatt cagaaaactg   120
ctttgtaaaa tgattattca acatcttcag aactacatat ttgtggcttc ttttttgaaa   180
tttcacgtgt gagtatttgg agaattcagt tagtggcaaa aagttgtcca tactatgaga   240
aatgtaatat ggaaattata aaaagttata aatgttcata aaccccatgg tcatcataat   300
gtaaatgtcc ttgagtgcac caagttgata tttcctcatc aattgagagt tcacagttct   360
tatttcacag gcccatlgat gtttttagta atgtggctat atctgctggc atactccctt   420
natnaccttc atctactgna gncatatecn gnnc                                454
```

<210> 10364

<211> 587

<212> DNA

<213> Homo sapiens

<400> 10364

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cttttttttt tttcgatgag caaactgaac ttttaatttgc ttacctgaaa ggcttgctct   60
tcattattgg cataggccac agctatttac acagaatcat tgtacaggat ttacagcaag   120
atgctacaca tagcatcatt ctggataagc gacaaaggag taagaacaga ctggggaata   180
aagctctgaa atcaaagtgt aagcagaaat ctgaaggtag gtgtacaagg aaggataagg   240
gccaaatgat gagcgagggt ggtgaggttag acataaggga ggaagaggaa acatccaaca   300
acttgtggtg cagagatata agggaagagt ccaactggcac atagtcttaa aaattatgtt   360
tgagagtttg aggaggaaaa atctgccata agccacctct gtgagaaaaa agaaggcagt   420
tagaacctta caggccaaac cttatacctc cctatcaaaa gtaatctgct gattaatcct   480
ggataggana atgagaaggt tgaaaaagaa agagaggaga tgcttgancc cgnaccttaa   540
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ccggagtttag agacccaagg aaatttnttc aggaaaggnc ccaggaa

587

<210> 10365

<211> 587

<212> DNA

<213> Homo sapiens

<400> 10365

aaccttagtt taggtaaatt taatgactgt aaaagctggt cacatagcag ctttaaagag 60
 acacgttttc cactgacata aagttgcttc gccccttgca gcttatctcc accttcacga 120
 cctgtttcct cagtggcagg caatgtctcc ccttcctggt ggggaggatt gcccaagtca 180
 gctctgagge catcctctca ggtcagcaat atgcagaaga gtccctcaga gtggtcctgc 240
 agagaacatg tcccttaagt gtctgagaac tggctgaggt gatcttcacc agcacatagt 300
 ccccaggctg ggctctgacc ctgagcccag ggttattgac atcctccatc tctgcatcag 360
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 actgagccct tccactagca ccacttgggt acaagcccac aagaaggtct gattgggctt 480
 ttggtgcttc ttctcggaag atagtgatga agttccttca aacgcttaaa ttttancctt 540
 tccgggaaaa ttattcttta gncctttgan atgncccngn ntttttg 587

<210> 10366

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10366

gtcgctgaga atattttattc aaaaacaggg attgaaaaaa ctgtacagag tgtctgctgc 60
 tgagaactgg gcccctgccc catgccactc ccccagctac ctggcagtgc cccctctttg 120
 ggggtgcccc tgacaagccc agccagttca ttccagtcaa aagggtatca gtggaagcag 180
 caagaaatct gcaggtggtg gggagagaag cctggcccca gctaccaac gggccctcct 240

ccctgactcc cacaaggatg cagtaggcca ggaagcccta agggatgggg agtgcgtgag 300
 tgacacccgc catggtgggg gcactaggga gtctcctggc tgctccctgt atccaagcac 360
 agagctgagg aggtagggcc ccctgccctg gggcttgccg aacttnagac ccctggggcca 420
 naactgnccc actctgagag aaagactcca taaatggagc caggtanggg gtgcatcatg 480
 cgtntggccn taccgcgttt ggacccangt ggagnttctt ggccggtagg tgcaaagnaa 540
 nccccctgt 548

<210> 10367

<211> 574

<212> DNA

<213> Homo sapiens

<400> 10367

atattttatc aattttattg aaatattcca aggatcccaa ccccatTTaa aaataaaaaat 60
 tgtaaagcac tccattcaat aaaagcacat aagtccccct caataattag tatgacaatt 120
 cagatacag ctcttactct gggagagttt attttaccct ttattccaaa aggcacaaaag 180
 tcatctgagg cctcagatat taaccccact gcatgttaat gacacaccac tgaggtgcag 240
 ctcaatgtaa ttattaaagc ttataacaca ctcccccaag aatttataga ttctttctat 300
 aaataataat ttaaaaaata ctgcacctta agaccaatac aggcttaaca aaagacctga 360
 aatttctgca agggcagttt tgtttcttga tagaagtaca acttttgaaa gtctattccc 420
 agcaaaagaa acactagacc cagcttggcc aaagaaacaa aataaaacag gtgatttcta 480
 acacgctaaa ggagtccatt tcatcagctt ccaagaaagc agtctgggca ttcagaaagg 540
 ttctatgatc caccagctgn aggcattaga aatn 574

<210> 10368

<211> 570

<212> DNA

<213> Homo sapiens

<400> 10368

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cagggaggag accactttta ttgcttgtct gggtaggatgg ggcaggaggg gctgagggcc 60
tgtcccagac aataaagggtg ccctcagcgg atgtgggcca tgcaccaag gaagggggtc 120
ttcatgcagc cgggtgcagag ctggtccatc cagaggggtg cctcgtgctg cagcggcgta 180
cggcgtgggt agaaggtgaa gtccacgcgg tagttgagca ggcagctgag ggaggccatg 240
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aagatgctgc cgaactgcgc attgaacagg gccttggtga tgcacctcag ctccctgccgc 360
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tccagcagcc ccgtgagcgc ctgctgccac gtcagenagt gcatgtactg ctccgtgttg 480
ataatccgga tctnacctic aactngggga taatggccct gtccccaacc tgcccgaaaca 540
tgaaatccgc nnaacacitt tnaagnggcc 570
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<210> 10369

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10369

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aattacgcat tttaaataac aatatgtgca ttgtttttta cagttataaa tttttttctc 60
acctgtttta gacaacagct tgtaatagtt ttgaatccat taagatgttg ctttcaattt 120
gaaatatttt gtgtatacat gtatataaaa aataacccaa tgtatgactc atctgaccga 180
tgtttaagat caataacggc ttatttttca acatgcagtt aggaagagag ggaagcaagc 240
caacctctct acagtatctt ttgtctggct tgtttttgta gtggtatcaa tagtggtttt 300
tggagggaac catgtgcctt cagcctatct agtcaagatc agataccacg atcaacaaga 360
gcggtagaag agatggggaa aggggagtg gtaagtgtta aatatcaatt ttgtaaagtg 420
tgcattttgg actccttcta ggcacaggat taaaaacagg nccatgagga aaaattggta 480
taattaggaa aaactggaat caaatcaggc ctaatagccg aattaaggtc ttttaatagn 540
tgnctatntg gaggttaacc tncctt 566
```

<210> 10370

<211> 518

<212> DNA

<213> Homo sapiens

<400> 10370

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gggaaatgat gttcttctgg acgtataaat aaccatcagg tggccaattc tcatccagag   60
tggacagggt ggaatgggat catccctgct ttcaaataagg gacattgacg tacagagaga  120
ggagtgggtt agctggggcc ccagggcaca gcttcaccac cctggggagg tctggggaga  180
gcatcctgtc cttcaggaca cccccacca gcggtctggag gtgagcacgc catgagtcgc  240
cccaggtctg ggaagagtgg gtgcatgggt gcttaagagg ctgcattctc agcggggcct  300
gcacctgccc cgctctccaa cccctgtagc cgacgtctcc tctgctccac ttgatgtcga  360
agccgggtca agaccagctc tgaggcctga atcaagctgt gctgcangat gtgcacgccc  420
ttcagggaga ccacggnaag cttctgcacc catcccggtc angtccacgt gagccatggn  480
cacaggggac tgganaacnt ccgttgcncg gcanatgg                               518

```

<210> 10371

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10371

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gaaacaagta aatcattggc tttattctgg gtcctggaag ctccactgtg agtctgaaaa   60
aaagacacaa caggggcggc agccctgggg gctggtgcag aaaatagtcc ctggctcttc  120
tggccctggg agcctaaagg gcagtgagga gaaggcttag caagaggcct ggagcagggg  180
aagtcaggtc cctcaggaa cctcctccc ccagaggaag gaggaagagg gctggagagt  240
ctgctggaga gtctgtcag ttctcagca actgcactgc aggagggtgc aggccatggg  300
ttactccttg cccttctcag gggcagtggg ctcccagagc cacttggtag tccccagggg  360
ctcagtccca gggtcagcc cggtgactccc ctaaggggccc ctgccccttc aagtccagct  420

```

nctcaaaaga ngagccgttg cacctgactc ctigaactgn gctcgctgcg gtgtancgta 480
tnccancacg gttgtcgccc cagtgcacatg tggaactgaa gctnccggtg cangnttact 540
tcaactaca 549

<210> 10372

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10372

ggacagcttg ggctggcttg ctgtttgtca ttttcaggga aaatccttat tttttcatag 60
ttaccatcaa gatctgaata aaatacaggt tttttgaaag ctctgtttat cccatgaatt 120
cttgtttggt ggaaccctga aattggagtt gactgtgaac atggaacaaa gtcttgacta 180
ttttcaaaat tatattctga atctgattga aaatgaggtg ttggagagca tgttcttgaa 240
tgcctagagt cagataggct ttgcaaggat aattttttgtg aaggctggat gaagtcttca 300
gaaagtgate tcagtgaaaa atcagactct gaagggtgac tttctgcaa agatgttccc 360
cattttaaca aaatatcctg tgattttttg gtaatctcag ttgcaatgcc atttcttttag 420
caatatcatc aaagagatca gcagaggcat catagctacc ttcataaccc atagaatact 480
ctggggtacc ntggtaatgg atatgtcccc angcattctt caatggattn gacttctatt 540
tgactatgc naaaagttct n 561

<210> 10373

<211> 574

<212> DNA

<213> Homo sapiens

<400> 10373

atttaaagac aatagagggg tgtagtatta tgacaaaact agttccctca aaaactgaac 60
tgtgttagca ttgattagag tgtctaatac ataggcagac ttggggaaat accagggtt 120

cctcaggata tgggtgtgat tctgacggta acctgcagcc aaatgtcaag ggccataggc 180
 tgaatgcctg gggagctctt ccaggggtaa agaatcctct tgggcctggg cccctccagg 240
 cagccaagat agggcagagg cagagagatg gcccagacct ggccaaatgg gttctatatg 300
 agccgccttt caataaagac ctgggctgtg atgaccccag ccgtgttctg tgccacagcg 360
 ggCggagtgc tcacaagtgg gtcctcgggc catgtgagac cccactgagt acactgaaca 420
 acacgccatc aagcaggttc catctgacac ttgnctgggg cccacaagcc aagcttcagn 480
 ancatcgnaa cctttgccgg acaaaagccc agggtcctt tagttcatct ggatgnttga 540
 gtccccttcc ttggcttnc ccggcccaca cttt 574

<210> 10374

<211> 575

<212> DNA

<213> Homo sapiens

<400> 10374

gtttatattt ttaatatattt acatcagtct ggctgttaca tggaaaatag gttacaagag 60
 agacaaaagc agaagcagaa agatcagtta tccagtatta cagtaatcca gaggcctgat 120
 ggaaggaag cactgagaaa tggctggatg tggaacaaaa tctgcaaaca gctgatggac 180
 tggatgacga ggcatgaagt ggagaggaga ggaaacaagg atggctcctg cgctctaagc 240
 ctagacagcc gagtgagcaa caacaaggct tcagctgaaa tggagaccct ggcagggtggg 300
 gtgcagggtg ggagctggat cagaagttct gatgtagaca cattaaacag gatgtgctat 360
 tagacatcca agtggagaac ccgagtagac tgggtggatat gtacctctgt agctcaaaag 420
 ggaaggtgga atgtaataga tgcccatcnt tgggggttca ttgggccgtc aaaaacatgc 480
 ctgaattggg gtanagacca acatcnttaa ggnccatcctc tggcttccan ggaaggaaat 540
 atttttccg gagttcttat tccnctntt gacaa 575

<210> 10375

<211> 413

<212> DNA

<213> Homo sapiens

<400> 10375

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gcgggtcacc cgtgctgttt atttacgcag ctgtgttttc taacactaat acaatgcatg 60
catgtattgt gtgttacatg gtgaaacaga acagatcctg aagttacaca gatggcgtgt 120
gcatgggggt ggtgagcacc cgcattggcct ccgcaaaatg agtgccgctt acaaaacggc 180
cccaatgccc ggcagtccgg ctgggccttt cagggcacca gattcctcgt tccaggccaa 240
gtcagcgacg gctcggggaa gtctgctgcg gctaggagcc ctgagtgtcg gtgttgtcgc 300
tgcccgtggt gttctcccgg tctcctccc cctgccggca tcctttctgc atcttcctga 360
gggcgcgctt cctgcggnag ttctcaaac tctcttngan gncnncg ttc 413
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<210> 10376

<211> 519

<212> DNA

<213> Homo sapiens

<400> 10376

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cgccactgag cattttattc aagccagcaa ccacggggct ctggagaatc ggggagcaga 60
gtcacgcaag cagaggcagc gtttccttcc attcacaccg aggtggcctc ctgtggacac 120
ggggcctcac cgaggcgctg gcggctctgg ggtgcagctg tgggcggcct gccagctgct 180
tgaggcttca gggccttctt ccaggacatg ggggtggctgg ccagccctct tcgctacgac 240
ccgcaggtgt ttgaaggccg ggggcagcct gcgccccagg aacggcgggg tggtcacgtc 300
gcggatcatg agcacgtact cccttaggtg tgctgccgca gcctgtcctt ccgtggctct 360
cccctcagcc tgctgcctcc aggaagctcc tgtgccctgg gtggggtccc ctggggtgca 420
agnccgcttt ggaatcttgc cgcttgctt cttggggaag gttgncagga accggaangg 480
ngnganccaa gccgggggcg gncccaggan gacaattgg 519
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<210> 10377

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10377

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gtttgattct aacaaaattt attatgcagt aattacaaag gttaaagact cttccatctc   60
aaataaaaat aacagttata attacacaca taatatagta ctttatagaa tgattccaat  120
aaatatcaca ggaaatacag tgcattttca agttggagag acaataactt tcicattcac  180
agtgtttgac ataggaaagc ctatttacat aacaatctgt ataaagtcac gctcttagta  240
acagtctata cagagctgtg ccaacacaat tctttcagaa tgtgaagtac cgggcaaacc  300
actcctggcg ctggggatct ggagaagcca ctggagaagc ttcactctga gcaggactca  360
aaaatgtctt gggcccttta ggtggcactg gctgtggaag tggtttgctg ctgttgaact  420
caatatcgtg gactggagaa ttaggaatgg gatccaggcg gntaggatgt ccattggcca  480
cttcaccaga ttncagagca cttaaattgg gaacactcac aaacctgttg gtgggggatt  540
aatcatcttc ttcttttgnt t                                     561

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<210> 10378

<211> 532

<212> DNA

<213> Homo sapiens

<400> 10378

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gcctttggaa gcccttcttt attgggaaat aaatacagag ttaaacaggn gggccggcca   60
acatctgngg ctttggaggc caaaaggaag gagtctgact tgctcanaac tcanatctcc  120
atgagctggt cattccccac gatcacctca ttcactcggt tagctttggc ttcaatcctn  180
tggccacttc caatcaagca gtccttgatg tctgcacct tctcgatcac agcattgttg  240
canatgacac tgccttggat attgcttctt tctccacag ngactgagtt catganaagg  300
caattggtaa tagtcactct atcttttatg agacaggatg agccaatgac tgagcgctta  360
atggatgact tctctccaat ctgngtctct ggcccaatga ggccgtcaac tccaaccagg  420
tgtttgctga caatctgggc tgacnaatgg actgngnggt ctttggacag anagcanaca  480

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gcaatttggg cccctgctgg ttggttncat gtaaaagncc catngctcc tc 532

<210> 10379

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10379

caggatgtga caacgttttt aatgcaaagt caaccattag catctttccc atgtacttat 60
tagatgtgaa atggcaggac ttcacggccc cgtttgcata ttttctact ccgcagacga 120
ataatatttt caggggaaggc agcgcantct gtgccgtcac aatcgggcga ctgtgggtga 180
tgagggatga tgattttcca ggaggccctg ggggtcanagg actcctagag ggagtttcca 240
gccctcaat cgcagatgga tggcctgttg atgttgtaac tggggtggaa gttganccgg 300
tcacaggagg tgatgcagtt atcggggcca gtcacgatgc ttttctccag gtaaaccattg 360
agagtattgt tccggaacat tccacccgag gcattctntg cacggtgggg gctctgctcc 420
cgtaagcctg gttactgggt cctgtcactg aaacagcctt ctgggtcctt gtaacccccg 480
aaccaccng ggttggntna accttgcccg gcanngtccg cgcttacgcc gnaagtna 538

<210> 10380

<211> 568

<212> DNA

<213> Homo sapiens

<400> 10380

gaacatgaag aaaaacgttt attataaaac ttaagaagca accaatcaac caaattatga 60
aaaaaaattt tgtcactgac caaacctcat aacctgaaaa gaaccaagaa aagaaattcc 120
cattatactt gtacttctaa aagggttag aggtctaaac tagacttcgt tgcaatccag 180
aaagttaaag gactaaaaaa ctggagaaat agagttaaga attagattta tcagacagca 240
tagtctatgc tgagatagca aaatagacat ggctttatit gctgattgag aagtgtcca 300

gccgtgggct agcagtcatt tacatatcag tgaccaaatg caaacatacc cgtactaaca 360
 gtgctttggt ccatgacata cccttttgac agcccaaagc tgaaacgtca actctatctg 420
 gggttacttg cttatacaaa ggatgttact ctagcaattg gtgcttgagg gcaaganccg 480
 atgattgnca ctagtaggga agaaagcnga agtggatgca acttacactg gatagtcctt 540
 anccttctgg gattaatgga aaaggtgn 568

<210> 10381

<211> 403

<212> DNA

<213> Homo sapiens

<400> 10381

cgctctnttt gaacttgaac tccaagtctt ntaaacaccg gccgtgctcg gactgcaggt 60
 cttcacgtaa cttctaattg gctgcttgat gatgactntc caggttccta agggcccgtt 120
 cagcctgggt tttgtcttga aaaatcttct ccaactcagc tctntgttct gccaattntt 180
 tctgaaactg gttttgnaaa tccctcattt ctgattgatg ctttgcanac agttntttgc 240
 gtaaattttc taaacataaa tctttttcaa attcccaatc ttccttcagg gtcttttacta 300
 tctgggcgtt tttctccatt tctgattgna acttctcctt nagctcagct gagcaccacc 360
 tntccttct ccnngcgtg ctgntccctg aggagctcca gnt 403

<210> 10382

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10382

aaagaatgtg tccatttatt ttattathtt aaatctgaac tttcataaaa tgatggttat 60
 ctgcatttag ctccaaacgt ttttgtgacg tgaagtggag acaagcccag gtttggacct 120
 ttgcacctta ctatcaggtc cagcggctgc accattcagc cttgtaactt aatttgcac 180

tgctgagact gtggcagccc cactgcaagt gactcagttt tctttagtg atagtaagta	240
ggggatgctg tgctcctgac tgcatttctc ttacagctgg tcaaagtcag aaatgatggt	300
gaagtacaag aggggtgcccc aggggtacatg ggaatgctcg cgggtgcctga gactctgggg	360
tggagagacc ccagtgggggt tccaatccct caaaaggatg cagcttaaga ggggacctaa	420
aagaaactta agcttgaagt ttctgagatg tagcatcatt tctcttcctt ctacactcat	480
tctgncagge tctttctttt tacacactgg cccctnttta aagaacccat caagccagg	540
ccctgcanac agaccggacc gcct	564

<210> 10383

<211> 511

<212> DNA

<213> Homo sapiens

<400> 10383

gtaaaacttt cccaagacat tttcagactt aaaaataaag tcagtgttac aggtgctggt	60
cagccttctt acttgtacct caaacactgg gataaaggag gcggtccagg gcaatgcagt	120
gatgtctgtc aagacattcc ccctccccta aactcagtag cagttgagga tgacatttca	180
ggctagagag acccaaaata cctctgttcc acctgagagc aaggtggaag ttgcatcagc	240
tactgcccc aagttagcttc atcttctgat tgtgggcttt ggaggaacga gagaactggc	300
tcttggccac tgtgaggggt acagctttgc cactcaaata taccttattg nggcattcag	360
ggagccaggg tccagagctg cagggtgcg gtccctggct cactttcaca taggccatca	420
cataacctgn cataaaggca tnaaaaccag cccggtgcaa tccatcccag gcactgggnt	480
angactggct tggttcctgg nacttntgan g	511

<210> 10384

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10384

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gacattttat attctttgtt aaatggttcc tgggtacatgt ttttaagtgcc tctgcttcta 60
gtttaaatga atgacccaga cagagctttc aagctgtttc ttagagaatg tgtggttgag 120
cagaaatggc tatccacacc tgacacaggt cccacccac ctcacaccct ggaggcagca 180
gcataagccc cagtttccac tatggtgtct cctcaatgac cagaataccc gccagttcca 240
ggggtcagca attccattct ctctctggct cagttcagaa gctgtgatgg tcctgttaga 300
gagcactgcc tgcaggtcaa aacctggaag aggctctccc aggccaggcg acaacccttc 360
aggtgcagac ggggaacaaa aggcttaacc tgtgataatc ccaacacctt ctgaaaaaag 420
agtaacagtc atccagcaac gggccatggg taggggcagg ccgtaacaag ggacactgcc 480
cctggctcac atgtctgtg canaagggtg gcacagatat angctcgctt ttaaggatct 540
ggtggacctt ttttaanctg gcn 563

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<210> 10385

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10385

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agttttaaaa acttaaagat atttattttt taaaggggaa cttatttgag aaacataaaa 60
acacaacaga atactttata caccacttaa tataataaaa cagacaataa taacatacat 120
ttttgcaagc ataaacactc aggttactaa taacatttgg gtgggtctaa cagttatgag 180
cagatgagcc atatttataa agaaattggt cataaaggga aaggtataaa tgcatatcac 240
tttggttgtt aattgtgtat acccagcttt ttaactctgg tcatctgaaa tactgtgccc 300
aacaacctca agtcttttga tgagattgat ggaaactgtg ctgggtcacc actgcatatg 360
cagtcaccca aagagctgag atctcaagaa attttatctt tcacaaatgc agatgtacga 420
aaaggatatc tcatttatcg aggaagtffc aacattttat gtcacactca atgcttatac 480
acaaagtcag tattngata atgcactttc atggagtcag attctgatat ccagcngcag 540
aanccnaga ggtccgtttg 560

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<210> 10386

<211> 413

<212> DNA

<213> Homo sapiens

<400> 10386

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gacttcttcc tttattatit atttattttg agacggagtt tcactcttgt tgcccaggct   60
ggagtgcagt ggcgcgatct cggtcacca caacttccgc ctcccggctt caagagattc  120
tcctgccttg ggccgagcac ggtggctcac gcccgtaatc ccagcacttt gggaagccga  180
ggcgggtgga tcacctgacg tcaggagtac aagaccagcc tggccaacgt ggtgaaaccc  240
gtctctatta aaaatacaaa aactagccgg gcatgggtggc ggatgcctgn aatcccagcc  300
actcgagagg ctgaggcagg agaattgctt gaacccggga agcgggggtt gccgngagcc  360
gagatcngnc cactgcattc cagcctgggc aacangagng aaactncgnc ccn          413

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<210> 10387

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10387

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cttcagaacc tttttattca tcatctaacc aacagagggtg gttggctcga actcaaacta   60
aaatggcctc aaaaggccca cctcgttacg acatgacagg gcaaaaccag aagtagggac  120
agagtttagc ctgagttctc tgcagagaag accaagcatg tatttacaca cagggtgcctc  180
attaagaact gattggcaat gttccaccag cacagaccca gagtgtgcag aaatccgtgg  240
gggctctgta tatgtgtcat tcagacaatc cgccgattcc tcagccataa acaagctctt  300
gctttttggg aggagggtga tcagcatgtt atcttgaatg atggcaccat ttgtttactc  360
tggaactttg aaggggaggt gacaacttat tttctccctt gaatctgaga tgcagtggcc  420
tgtcagagta tctaaaaatg tgcctggaa gacagggtgt ggtggttgcc ctaacagaga  480
gttacagggt aatgggggtg gctctttcag tacttaatcc gntggttttc aaaaaccctt  540

```

gnacctgggg nccctggacc

560

<210> 10388

<211> 564

<212> DNA

<213> Homo sapiens

<400> 10388

gaaggtatat gtaggctttt attagggcaa gcatttccat atccatacag atttcattaa 60
aacaatgga tgtctcaagt atctttgtta aacaggatcc gaaatgaagt aaatagtagt 120
taaaattaat tataaataaa gacatttcag cacataaacc aacaagtctt ttctagattt 180
ttaataccag gacctaacag catcattttc caagtaagtg acaaataact aatgtgaaaa 240
ccatatttaa tatagatgat gtcacaaatg acaatgtggt tttccatagt aaagaaatac 300
gttaattttc ttaaatecta ttgtgtatta caaaataaat ttactgggc aaaaaacaac 360
caaaaaaac caggaaaaca gacatgatgg aaaggttgat aaaaatatatt aataacttaa 420
aatgctgtc acaagcatgg aaatgctacc attatcattt gaatacnaca aaatgctata 480
aagcaaagag ttggcagaat acagtagaag agctattctg aaacaaatga agagtcagaa 540
cnttaaacng gggccaggat tttt 564

<210> 10389

<211> 414

<212> DNA

<213> Homo sapiens

<400> 10389

gggctagaac cattttaata taattataca tatctgcaa atccaggaag aaaaggttta 60
tgcatatata acttttccat ttaacatgtg caagcataaa cgacaatgat ctgagtttaa 120
taattcatca gggtcagagc aattgaccaa tgtctgttta ctgctaggct taccaacagt 180
aaattacaga tgaattagtg tccttttgct tctcttctct gactctcttt gtccagagac 240

attttgtcgt aaagtttcag tgcagctcac ctccagccaa aggtaatctt tttagatcag 300
tactcagttg ctctgaattt tgcttataat tataacctat ttaatcacag aagaaccctt 360
gcanaggtgg agttcaaggt tgcatacaat aacngganna tcncagnttt gnag 414

<210> 10390

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10390

ggtttagttc caacaaaact ttattaataa aacaagcagg tggctggatt taacccaagg 60
gctgtaatct gctgacccat gatgtagaag actgagtgcc ttacagacca atcctgctac 120
aaataacaga tataaattct aggaagaaaa cctatttgag gctttggaga tttacaaaaa 180
atagattttg aagaggagtc aacacctgga gcaagtgatt tggtttttgc agtttttccc 240
tggaggcagc tgcaatgggtg gtggtgttgg cacaaggact gggggagggc aggcagcaaa 300
aactcttgcc atctttctga ctggaggaaa ctgggggaaa gagcctggaa aaaccatagg 360
tgctagagaa tgatgcagat gccaagaaa gaagacagcc ngaagangac aaccccagat 420
tctatgttta acctcagccc aagtcnttgg ctgctcctga accatgtatg ttggggcaat 480
ctgaaancgc tttaaactca ggtaaagaa cctgaattgn gtctatgccc tgctctacag 540
gcatggcan 549

<210> 10391

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10391

gggtgtgggg cttgtcttca tttttggtac gagtaaagcag gcagcacctg tcaactgggtgc 60
actatttaca aagcctcttc aataaataat ttagagagaa tcctaccga atggctctaa 120

catttgtaca tgaatattgt acatgattaa aaataaataa ggcaatataa tacagttttc 180
ccacaaataa aaaggaagtt gtttttcacc aaacccaag ggacattatg gctaaacaca 240
gttcctgaac tcccaggaag tggctggggt ttggagttgc tgatgatgga gatgtttgcc 300
cctgaagtgg agaccttgcc aagtctgcca tggggtcctt tccagaacag tcgtgagccc 360
agagaaggca gcatgggtccc cgcgacggct tcctctcact gccctacaag tgccacacacc 420
ttgggcaagc ttncangatg tcatgtgtga ccttccgggt ctgtggaccc caagcacaga 480
tggcgtggct ggctctcttc taatcttaca ggccaaacca ngggtcctgg acttgcttca 540
ctcacgcct 549

<210> 10392

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10392

accattctag atttttatta aaaaataaac aaacattagt cctacttttt gtctctaacg 60
cttcatgaat ttatgtgtca gccttgtgca ggggctgtgc taatctctgc attgttccta 120
ttttagtaca tgggctactg aaacaagcag agtcctactt cttaaacttc ctcttcctta 180
cacgtaaaaa gccaccagt caaggtcttt taatttttgt gtacactatc actgaatgcc 240
atttataaat tctaatttta aagagaccct taattttcaa aggaggactt tgatagcatt 300
agttttcaga aaagatgact tgcaattcta acttagtact tgaaagggtga gatttttata 360
ggggaggctt ataaaaggng tcttanaaaa aaaatgagcg ctctcaaacc tttcttttgg 420
gaatgaaggt gtggggctta agtgactttt tnaaagggga acaactgacc ttncgccngg 480
agaagcccc tatgcgaact gtggccaacc gcaaaggatg gttctgngca cattcctgg 540
aancaancg 549

<210> 10393

<211> 452

<212> DNA

<213> Homo sapiens

<400> 10393

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cgcgactgag acgaaacgac acacaccttt acttaatgga aggcttcgct tacatcctga    60
acttaaagga actacagaaa gggacagaaa ctgctttctt tttaaacaat gcgctggaag    120
gttactagtg ataggaggct tagtgaagcg cgtgatgtga acggccacgc tgcaaggctg    180
gagagaagag aggagggagt gaagttgcac cctgatcgcg aatcctcggc cttttatcag    240
gggcgccgcc actcggggtc cgaccattcg cctccaacga ggggacagcg aatctgctgt    300
cgtgtgcagt ccacagcaac cacaggtggg gcaacaggag gagcgcttgg gcacgaccac    360
gtgaccacgc acgagccacc gcccgcacca aaatgaaatc aaatcctaata ctcaccaatcc    420
cggnatgccg gncactccan ccttnncang na                                     452

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<210> 10394

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10394

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gcatatataa ataacattta ttaacttagg ctgtacaata tattgattta gtcaaataaa    60
aaataccgta cacaaaaatt gaagtaaaat ctgtaagatg ccattcagac tgaattttat    120
attctgaata agacaaggga ctgccattca cttaaagcaa aatggctcca attccgttta    180
tctatctatc tatctatcta tctatctatc tatctatcta tccatctatc tatctatcta    240
tctataagtc tcgctctgtc acccaggctg gagtatctat ctatttattt atgagataag    300
tctcgctctg tcacccaggc tggagtgcgg tgggtgcaatc tcggtcact gcaacctctg    360
cctcccacgt tcaagtgatg ctctgtctc agcctactga ggagctggga ttacaggcat    420
gcaccatcac acctggctaa ttttggattt ttagtagaga tggggttcac catgttggcc    480
agctggtctc gagcttctga cctcangggg atccaccac cttggcctnc caaagggctg    540
ggatacag                                     548

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<210> 10395

<211> 551

<212> DNA

<213> Homo sapiens

<400> 10395

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gagctgcaga gcactgagct ttatttaciaa acttccacag aatccctcac cctccacccc 60
agggtcctcc ctctctggaa ctccaggcagc agacaagctt gggtcacccc acctgcccac 120
cctaggacag ctgggcctga gctgggcggg caggggattc catctcctgg gtgcgcctgc 180
cagaggggag aggctggagg cggcgggaat gctgttctcc cccaggagtc agtcctcagg 240
gcttctgccg tgggacgtgg ggccgaggga cctggggcac tgaccaggtc ggggtcgggg 300
gcagcatctg cattggtgag gccgggtgaa aagggtctgt ggtgccggac agcttctggt 360
gctgggcctn acggagacag aggaccagan gtncaggttc ctgggggctg agcttttctc 420
agactttgga ggaaaaatgt ccaaccaaac angcaattgc ccggggcang ggccagtgtg 480
tcanaagcgt naaactcttt cgccgngnga tgtggtaccg gtgccggggg ctcaggaatc 540
gaaggcggga n 551

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<210> 10396

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10396

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aagatatgac acatttatca tccataatca aacaattcaa atccctgact gaaattggct 60
tgaaaaatga tacaaactct atggctgctt taaaggactg taagataaca tgtttttaaa 120
gcctatataa accactgatg cacttttata tactttatat tcaaaactaa tctatggagc 180
tcattccatt ccatttaaaa tagtaagtcc tcacatattt gtggttactt ttacagtgtt 240
tttaaaaaag gagtactgct aataatttaa gacatcctaa agacagaata ggtgtgaagg 300
cttcttttta tatttggggg gttttaggta atttttaaga acttaaaatt attatttggt 360

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cctccttaat atgaaactct tccaaaatac cttctgacca gtaagtaa at ggtccttang 420
 cactgtgagg tggattaatg atgaacatga acccaggctg agaaagtgtc caattggatt 480
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 ctcc 544

<210> 10397

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10397

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 tatgcatgga ggtgggggggt gggctatgaa tcattcctgt gttctcaggc ccaggatcat 180
 gaagtcacga ggttgaatgt agcagagtct gtctcttctt tcaaggctca taacaatgcc 240
 gcttctcca ggaagcctcc ctgtctttcc cagagacagc tgtggcttcc tgctctgggc 300
 ttcccaggcc aagttcccag ggtccctctc tgtgctccag ctgtgaccac agaggagtct 360
 atgcctgaaa ataaaggccc ttctgggatt ctagccatgt ctaggcacag aggaggggaa 420
 ggggaagtgt tgcagaatga ataaatgaaa aagctggtca tcctttgaat taaatgtgga 480
 atgaaaaagt ctggttggtc aaggatgggg atcggaactt tggctgntt atnttggc 538

<210> 10398

<211> 546

<212> DNA

<213> Homo sapiens

<400> 10398

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 aggtgacaaa tatgaacaat acttcaagat gcccttttta tgttacatta cagttgctgt 120

aactggtttg tattggtggg aaaatcccag gtactgcttt tactactgtg atttgttgcc 180
 agcatttata acttgggagt aaggctaaat ttcagtttca ttgctgaaaa taaagatgta 240
 acattttctt ccatcaagtt catggttacc cctggcttct atccaggta agaatccctg 300
 cctttaggga aaattctgga cataatcagg acactcctga agaggtttaa agaagaggta 360
 agacctcact caagaattcc cactgcagta cagacagact ttcattgntt ctttccttgg 420
 tgncttcang gttgttgcaa atccctcttc aaggcttggg tggccaggcc tcgntgatga 480
 aatgatattt tgnaaaccag gtcattnaaca agttccggtt tncctggcatt gaccanttct 540
 gaggtg 546

<210> 10399

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10399

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 tgtacctctt tcgaagtgga gtcttgctt ttcacttac tgacaattct ctggactgca 180
 ctgactctcc agttttttct tcacgttcag agtaacgccg agtaccgttc ttaggaatcc 240
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 ttgagggttg ttttactaca cgctgaagac cactgggtcc tgcttggtcc tcatcaacat 360
 ccacaggaat aattgcctgg ctgtgagctg gattattatt tccactctcg gccaccacct 420
 ctccatcttc ttggacgaag gtcttccatc tcatttaatg cgtaactgc aaactgntgn 480
 tctctggctg caaacttgcc naaggcanc tcttggtga gcatctggat aagggnatgt 540
 ggccnggan 549

<210> 10400

<211> 140

<212> DNA

<213> Homo sapiens

<400> 10400

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gaacatgacc tgttgccttt tatttaaaaa ctgttactag ccctgcctgg ggctcctata 60
caaaaacaaa acacaaccta aaataagggt tcttcctgac cccagagact ggggaggggt 120
agggaggggtg gggnnnnnnn 140
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<210> 10401

<211> 502

<212> DNA

<213> Homo sapiens

<400> 10401

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ggcattccaa ttcattttct gtcactgcca tgaagttaca ctcttcacag cagtagtacc 120
ttttatcttt ttcattgggt ttagcatgtt gcacaaatgt ttagggcaa ttggtaccaa 180
acacacactg aggacactgt aatcgtgcac ttcttccttc atcctgaagt tctttcaatt 240
cacgaatttc ctccatcaac ttctgtcttc tctcctggng aataatcata tgtttttagaa 300
gtgaattgcg atctcgaaat gtcccgcca cattctctac aagcatatgg ccttgggaca 360
ttaagatggc gaaagtgact attcccatct aaatgatnca tcatatgcc tgtnggaagg 420
tgcttcttct tccctaaaat tacaattgna cttttgntnc agggggtaaa aatgantggc 480
tctttcgggt acttgnaagg an 502
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<210> 10402

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10402

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tcctggctgg cccctctttg aaatcccttg ttccgcagct cggagtagaa gtcgactccc 180
tcagagacag agtggatggg ctgattatga tactgggtgg agctgggtcaa aggacccacg 240
gtgggggctg cacttgacag ccgccgaggg aaacactgat ggtgatgtgg taggcagttc 300
gggttttctt tgaagctctt actatgcttg cacttgaact ccagcaccat cctgggtgtac 360
gtgttggaagg tggtagacag ccgacgccat gcagcaggtg aaggagaacc aaggccatgt 420
agaangccca gcccataatt ncaaaccatgn ggctccaagt cttttggacc caagttgaca 480
gtcgtttgga aaaacttggg aatncttcat gcggccaanc atttcccang anaacctgcc 540
cggncccaag gaaaccgccn g 561

<210> 10403

<211> 541

<212> DNA

<213> Homo sapiens

<400> 10403

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taaaaaaaca actaatatcc ttggaatatg aacatcctat taactgatac aaactgactc 120
cacctttctt atagcagtga attttcaggt cacatacaat cagtaattta tactccaaat 180
acaacaatca cgtttgtatt aatcatccag tacaattcac aggttcctat tacacaggtg 240
gatgtactta gagagtttta gcacaaaagc tgatacaaat atgaaagtgt gctcagtcga 300
atggttagtg aggtgctaca ggtgagtgtc ggcgatgggt atcctcctga gctccacgat 360
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actgagacca gcaccagttt ttaatgcaaa tattaaatca tcaacttctg ggcttctcat 480
cggntatcaa gtgaccctgg gcatacctc caaagacggg accgggggttc cnttttgggg 540
n 541

<210> 10404

<211> 522

<212> DNA

<213> Homo sapiens

<400> 10404

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canggcaaaa aaagatattt tattttaaaa acatgtttgt gggttttttt cttttttgca 60
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aaaaagccta ttcctgatga acatttcaaa agaacactgt tttgtaatgc accagtggga 180
agggaagagg caaggggccc ccacagcacc aaggnggcct ttgaggaggg aactgttagg 240
cagcatctac atttagctaa ttgagggccca natcttcttg cctcttgaac tagatcctct 300
agctttcctc tggaaatcag taaaggtgaa agtgtgagga gtcattcctg ggctagtgcc 360
ctgatggaaa ggtgactgga cagggatattt gttgagggac ccactctcca tccccttgga 420
agaaaatgtt tatecttaga aaaaagttct gnttctggac ctggactaat ncccaacctt 480
accccctaga gagaganaaa nganaagang ganccctttt ta 522
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<210> 10405

<211> 453

<212> DNA

<213> Homo sapiens

<400> 10405

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gaggcacctg tgggacttta ttagataaac acacaccagc tccagccaca ggcttggacc 60
ggccagctga cagggcggcc tcagacaccc ctgccgggtt ccgtggcccc tggccatggc 120
tggaagcagg gttcaggccg cccacttct gtctagtcct ggaggcccc cctcacctg 180
gctctgctgt gggagccgag aacaaagacc ccgcctgccc cactccttct gccccagggg 240
ctcagccagc acccacctn acagtggcct gggcaggggc tgggtacaa agcctnacc 300
tcccctgtg agccagacgg aaaatgcac tccaagagt gtctcaggg gcaggaagga 360
ggcctgcccc tccctagcca gtgcctacaa cagggggtgc cctggggggc anaacggccg 420
accgncacca canganatcc tggggnanan aag 453
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<210> 10406

<211> 523

<212> DNA

<213> Homo sapiens

<400> 10406

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agcattcctt tatttttagaa gttcacacct ataattttat aacaatcgtg aaaatgttac   60
tcagaactag atgttttgat gacacatagc agaaatctgt ggttcaagat ggtcattgca  120
aacttaacca atctcagcat tctattctgc cttttgtttt gattgcacag aatcaatata  180
attctgattc atatggaaaa taacttaata tcttaacctc cgctcaggat cttcatcata  240
aatgtaggtc agtacatacc taaaaattgt caatgatcca acatgggtcac atgtgacatg  300
ctacacttgc acctagtacc aaacaagctg atacttcaat gagatctggt tggcatatac  360
acccaagcct tgtctgtccc ctgagagcac tgcacacaga tagtgaaaga acttgtgtca  420
ataagaaatt cacagggatg aagctgggcc cagtgtctna cgcctgnaat ccagcacttt  480
cagaaggccg aancaggngg atcacttgan ggncaggagn ttc                        523

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<210> 10407

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10407

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aaaacaaaaa aacttcattt atatacagtc agatataaag acatctcttt gactcctgtg   60
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ctgccctatg gcagggccaa ggagaggatt gtcacttgaa agtgggaaca cttaaattgga  180
tgacagacaa cactggaccc acagaccaag agcattcttc taagccctgg agtagctcga  240
ggaatggaag agggaaattg gaagcagggt cccttttcga tcttcatgtg aagagaccca  300
gcctcttcaa gggatatcaa gataaacttc cgttcccca gcccaccaat ccctgtccag  360

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ttcctttgct tcctgccctc ccaaatagga cattctcctt tgtgccccagc ccccttttgc 420
 acagatccit caaggggagt cccatgatcc acaagggcag agacctttat agcanaaggc 480
 anggcaggta cacactatct ctnccttatgc atgggtgggc actgctgang gncttggttc 540
 angaaatccc aaa 553

<210> 10408

<211> 286

<212> DNA

<213> Homo sapiens

<400> 10408

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 attccaaagg tactatttat acttaaggca gttttaaaag tgaggcttta accaaaaagc 180
 ctttacatgg cattcaaaac aaaaacaaaa acaaaaaaaaa caccggggggg ggggggcact 240
 taaatntntt ggattgnctn aaagagctna attatgnacc cnaaat 286

<210> 10409

<211> 508

<212> DNA

<213> Homo sapiens

<400> 10409

cctccggtag agatggggtc tccctatgtt gtccagactg gtttcaaact cctgagctca 60
 atgatcttcc tgcctcggcc tcccaaagtg ctgggatttc aggtgtgagc caccatcccc 120
 ggaccttttc ttttcaaaac atacataaaa atggaaatga ataggaccag ccagtggctg 180
 tgatgcagcc aaaacgccct gtctggaaag catgcgtcta ggtaatcttc ctccgctttg 240
 ccaggcggtc tgaggctctgg gctggaggca gcgggaggga cagggtgccc agtttgtgat 300
 cttcttcaact gccggcggcc acagacaccc ttcttttggga gatcttcagc ctcatggctt 360

tggctatctc catcatcctt ttctcactga gcttcaagtc cctctgtaac actgtcaggt 420
 caatttggaa gtcattgtatg tgcaaggcaa gntgatcac atatgcngna atcttcgcct 480
 tnatagaatc cnaaaattaa ntcccnaa 508

<210> 10410

<211> 540

<212> DNA

<213> Homo sapiens

<400> 10410

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 cagaaagatg aacctgatta tctgacacac attctgtttg attaagcaaa ccaggtgggt 120
 tattttctaa gactacaatg ccttcaacag attcctcagt atttttctcc ggctcagatc 180
 tcattaaggg cttagacctt ttattccctg ttgtttcagc ttaccagct ctccggcttg 240
 atctcttagt tccattcact attttttcag aatcagattt tgaaaaagtc ccttctcttt 300
 gctttgcttt tggtagaaaa tctgttttaa tcatggtttc ctggttattt ttcactgtaa 360
 cagttgatga aatattattc aagggggatg gactaaaagg tctattttct gaaccatcaa 420
 acttctccaa agtaataaag gtttgccctc gacttggtag ggtatngggg gaagttccag 480
 caacaggtgg tattaggaaa ctggactact gntggcaacg aaggaatttc tggctagatg 540

<210> 10411

<211> 520

<212> DNA

<213> Homo sapiens

<400> 10411

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 aatacttnat gtnccatga aataaaacag gtagggaata tgtccagngc aaacagagga 120
 ctcacacctg tgcttanaca gcaccatcca ctgattgtcg ctgcagtcca cggcggttact 180

aagcctgcgc caccacagtg ctgccccagg aggcgctacc aggcctnttcg ggccacaggc 240
 ctttcctcca ctgcatgtgg cggcagggcg ggtaggctgc agggctccat gattgtgggg 300
 cancttcaag ggcnatggg gcaaaggccc tcgaaggctc cctcctnagt aggggatgtc 360
 attctgatag tactggatca tgttgtangt ccgntcctg ttgctgagga agcagctntg 420
 gatgaccttc atgatgaaat ttgcaacctn gggctcagtc atgttggggc taaacctgng 480
 ctttaaanaa cttgattgcn tggcccnnaa aaccgggcnt 520

<210> 10412

<211> 531

<212> DNA

<213> Homo sapiens

<400> 10412

aaaataaacc attcagtaga ttttattaac caaacaagc ctctgagat tggttctgtc 60
 acctcggagc cacaagctgg gaaaagataa ccacacccac ccagccagct tccccaccc 120
 ccagctgttt ccaggcctgg gactggagcc ctgctgagac cttgtccac atctaggacc 180
 ctctagggcc tttgggcaca gacaagtagc aagggcctct gccaggaaca cctagaggat 240
 gtccagctgg gtgcttctcc actctcagtc tgtttgtca aatgtggaat tctaatecct 300
 ggccagtttg catcccgggg atccctgaag agatcccagg aggggagtgc tttgtgcact 360
 gaaggcgtgg aacagggcac tggaggagga agaccagag ccctggctct naagacaggc 420
 ctggcttcaa gcacctggca tcctttccaa ggagaaggaa gcctgatgtc tggattccca 480
 ttttcttctg aatgccagga acaccanaat gcctgtgcc cttggaaga a 531

<210> 10413

<211> 458

<212> DNA

<213> Homo sapiens

<400> 10413

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 actctgtacc tgtaaaagga ggtatgcggg gcttctaaag catgcactgc atccattcat 180
 tcacgtggtc cactgggtga tgacgggtctg tcttccccctt aagcaaaaac tggctctaag 240
 ggacagggtct tttcttcacg caaaagggtga gcaatgcccc cagcctttca ttctagaaag 300
 tgatgaggcg atgattttgt atccacaaaa tgcattatca aagtcacca ctttagtggt 360
 catttactaa agtttagcaga gatctagaat ttgaaaaaaa acagtttanc aatgngaaat 420
 aactccnctt agcaaattca attaangnaa ctngntca 458

<210> 10414

<211> 533

<212> DNA

<213> Homo sapiens

<400> 10414

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 tgacttgtac tgggtactct gaactttcaa ggaggccaga gcaggaaagg gaaaggaata 180
 acccccacca cccccaacac aagagaggca caaattagag ggctgggcac aggctgtagc 240
 cctgggtgag ggggtaagca gcttgacagt tgctctgtgg tctctgggat ataattctgc 300
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 aaggcctgag aacaaaggag aaagtttagc acactaaaca catggccagg accctaggga 420
 cacaaggcaa ctggagagtg ggatctcttg gtaaattggca tggtaggcag attanagtcc 480
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<210> 10415

<211> 545

<212> DNA

<213> Homo sapiens

<400> 10415

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ttccaccaat gccgttaaga tgccgccact tgggtgaggg gctcctccag gtactgcacc	180
aaagcctggg ccttggcctt gagcattcca aagcccacgg tctccttggc atacatacac	240
agcagaaggt tggccactcg ggtgatggct acacggccct ccatgcagtc catgaggatg	300
aatttgagat tgtcttcatt aaacgcttgg ttcccgttcc ggtcgtaggc ggcccagatg	360
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agtgatccct cgttattcag cancaggggtg ctctggacgc cttcagtgtt ggcttggctt	480
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cccaa	545

<210> 10416

<211> 401

<212> DNA

<213> Homo sapiens

<400> 10416

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taaatccaat ttanaactta caaggtggtg gggatgggaa gaggaaggga cacagtatgt	180
acagatgctt aaggggatgc tggagggcct tcagcaacag ggaatggagg tgccaaagag	240
gaagtcgggc agagtcagcc actgatctgg accccctcag cctcggccag agggtagatc	300
tcaatggctt ccaccagggg tagcgcttcc acagcagtct ccatgacggc caggccaacg	360
gcagcctccg cctttgccan ctgntgccnn ananngcctg a	401

<210> 10417

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10417

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gtcaggaaaa tatctgatct gattcttccc agcttgcttc ccctacaact taataagccc   60
ttcactaacc cctgtatgta ttaactgcaa ttgcctagcc cggcatttac actctcaaaa  120
gatttaacgc aattacaatc aaaaaacact tgtcatatat aacacttttt cacatggaaa  180
taaattgggtg gtttaagggt tacaattcct ttgaataaaa tttcagttat tagttacaaa  240
atgctaagac agattgaggt ctcaaagaaa gaacttgaga aaattatggt ttaaaggact  300
tcacaaatat gaagcataat tgtagaatac ctgatacaaa gtaacttttc ctaggtttaa  360
ggttcaagtc tgaattcttg aattgtccag catcaacgag acctcattta tattcttttt  420
attttatcat tactttcaga ttcagggtct ctgctatatt tgccaagct ggactcctgg  480
gctcaatggg ancctcctgc ttaacctccg aanggttgga ttnnaggctt gcccatggcc  540
cggggttaca aatt                                     554
    
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<210> 10418

<211> 543

<212> DNA

<213> Homo sapiens

<400> 10418

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atacttttgt ttatctacaa cccaataaca gacatgaggg atggccctgt ctctctggga   60
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ttagagtcac tttctggtat cgagcgacca caccgaggag cacaccctgc ttccaaggct  180
gtgcctttct gcacacagtg ggggatcccc acccaccctg gctccccca agggtgcgt  240
gcacagtgcc cgctttccag ttacctgacc caccctgagt ccctattcca ttttgctcgg  300
ggctgacctc agacatgccc tgtggctcag ctctgccact actcagaaca ccagcctcag  360
cttcctatg tccccagat tcagcagccc aacanggatt gggggaaatg ctccacatca  420
ngtgggtngg tggncgtgggt ccctgnaaac tggactggct ttttaagcca tttcaggaac  480
    
```


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gcc 543

<210> 10419

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10419

aaggaatcaa aaacttttat tcagaataag cgttagcaaa atgaaggtag gtgcctcata 60
aatgcagggc cccagagtac tcagaaaggg attagaaaat aattacaaaa atattttgcc 120
acatattaac atgaaactac aatcactggc tgtaaaatat agtcaaagtc aatcaagctg 180
aaaagaaaag gtggaaatct ccagggtatc tgcccagggtg gcaggaaatc gacagccccg 240
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taccggcctg caccacccca ctcaggctgc acacaagaca gccagcttag gatctccgtg 360
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ccaatgagan gagtggaaac tgcattacaa gaaattcact ggggctggac ttgactcttc 480
acttggcgag tctnatgang cactngnctt tcaatggctt ctggcantta atgcttccgg 540
gcattanggg cctttt 556

<210> 10420

<211> 525

<212> DNA

<213> Homo sapiens

<400> 10420

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aagttcatca ccacttggtc ctgaccttt tcaagtgtaa gtatttgata gccagttggt 120
ctactacata ttagttttcc actactatca aaagaagcca aacgtaatct aaatgctatg 180

ctccttcgag gctgtaaact gacagatccg ctacatggct gattcagtgt attgcgtttg 240
 aaaatgatgt atcgattggg gtaagttaca agtaggtcga agccgaagtt aaaacctgtc 300
 caacgccagc agtattcacc atctttggca agctttctac cacacctcat gctgtttccc 360
 tctagttctt ctttattgat ttcttgaggc cccacctcac tgtcctgttc tgcccgcagc 420
 atagcaaacc actgntgggt atacncagaa gaaagccatt ctgaangnac tacagcatct 480
 tggtaataa ttcttgcan aagccngatc ctggtaatat attgg 525

<210> 10421

<211> 535

<212> DNA

<213> Homo sapiens

<400> 10421

aaccattact gggactttat tataatagtt aacaatatit taggggnata caatcatatc 60
 acaattactc aagctatata caaacaggna tttatataag tctacattta aaaaagaaaa 120
 agcaattaat gacctcccca aaatcacatt atcatcaaca agattttttt ctaaaagtta 180
 cggccaatcc aataacaaaa aaattcacag ntattctgca nacattttta agatgcagga 240
 attgnattgc ncattatata attataaacc ataacaagca gttatatatt ttaatctagt 300
 ttttcacaaa atttacatta tcatgcaata cticactgnc acagaatgat ggaactagaa 360
 caggittaact tacaacttt taattatagc cccaaattta gaattatttt aaaggtatat 420
 ttcaaattat tatnctaaaa aaacnctcca ggggaataaa acnggnccca tcataatttg 480
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<210> 10422

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10422

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aacaggcttt tagggaactg gacacacaga ccagctgtga ccctgacttt cacattgatg 180
ggtgaatggc aagtaggagg taatgaaatc tggaaatgac aggggagaga aggcaaagct 240
gcctggagtg tcagtcccgg aggcatttgc ccctctcccc cgggggccag ccagggactt 300
cccagttcag gaaggccaca acacttgttg cacattaatt ccgagcttgg cccggcttct 360
ttcctgtgcc ctctgcctct gtgggcaggg gaaggaggaa ggggtgtggtc ccttaggatc 420
tccaagtgt cttccagctt ccaggagcan ggctgagatc ccagagtcag tgccatgaac 480
tgtgcatttc actgagggaa aagggangtg tggnttttgg actttgcatt tcacacanaa 540
cccccttg 548

<210> 10423

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10423

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aaacgttaag cacttctcaa gtaacatgat gtggaattac actttttgct cttacctctt 180
ttaggtacac acgtattatt caacaaagca aaactatfff acagtgtctg ttaacaaaaa 240
gttctctatt agatagaaga aactacagta tctgaagct attccccaa gagctagttt 300
agtagataga cctttgggcc catcttattt ttccttcttt ttttttttc agtaaggtaa 360
ctttccatta tgcacatact ataccatcat cattcattgg gtggagatta gctgggaagt 420
agctgnatat ttttagggga gacactgatg gcatggactc tggatcgtgc tgtgcttatg 480
ggtaaacata tctaattgga aattcgaatt acatncanag cttccggatc aaagnccgac 540
attttcaa 548

<210> 10424

<211> 548

<212> DNA

<213> Homo sapiens

<400> 10424

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ttcagaagcc aatgttctct aaatctgcag cttcattcca cagctttaca gaatcataat 180
ctcttgaata tatttccaat gttattaaaa aataaaaaat catacaagat atatttagca 240
cattaaaact taagagggtta cagtataact gtccagacct ccaggtacca ctgaataactt 300
ttccagtaca aagaggccaa tatgtagtaa taattaattc tctgtattta cttttattaa 360
aaagagggtt ttggtagtaa gaacaaataa tctctcattt gttgcctgaa atcctaaaat 420
aggatcattg gtttctaggc ttgctacttg ctgcttagca acctgtccta cttgcctggc 480
cttccttctg tggaaagtac agtggacatg ggagcaggct gacgatngat gaataactga 540
cgaaagggn 548
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<210> 10425

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10425

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gataaattca ttcattctct ttgtaaccct ttctgtttgc tgcttttctt cttccatctg 180
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gattcgatgc cgtaattctt catcatcagt gtcagatgac tcagatcctc tgtcactcct 300
ctcatcttca ctgtctcctg atccataacc acccagtcca ccgagtccag tgagggaagc 360
cagtgcactg gactgtgcca gctgttttgc aggagctttc gttgctttgc ggtgtgcatc 420
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tttggtacg taataaaatt tcttcatctg gggacatcca gcagaaattc tggtaaaagc 480
 attttggcag cacatcattg gatactcttc tcccttaagc atcttaaggg cactgggctc 540
 ttcttgagga actggga 557

<210> 10426

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10426

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 actggctcag gctggggctc acagaggcca ctgcacatca gctccaggct gcaggagcca 180
 ccacctggcc atactggctt cctccctgac gcagcacagc tgtgcctggg acacagagtc 240
 gctctcaagt actggagcag ctagcaagct cactccccac tctcctcact tatctctgtg 300
 acaatgtcta tcaggctctg gagcccgaag atatagccag catcctggcc ctcatgcacc 360
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 acagagctgg cgcccgatgg gttttaggc ataggcacca gcagactcat cagctggatt 480
 cctctgacan gnccttccaa tccttaacat tctgagtcca ggaaccactt tngggccggt 540
 ccttggcatt atnaaangac cn 562

<210> 10427

<211> 554

<212> DNA

<213> Homo sapiens

<400> 10427

ggagacaagg tctcaccatg tcacccagtt tggagcgcag tggtaacaatc tcagctcact 60
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ccacaggtgt gtgccacat gcctggctaa tttttgtatt cttgggagag acagggtttt 180
gccatgttgt ccaggcttgt cttgaactcc tgagctcaag cgatctgcct gcctcagccc 240
cccaaagtgc tgggattaca ggtgcgagcc attgcacctg gcctaacaac ttgtatatct 300
aagaatagcc tgaaaataat gtcagcatgg gctgtacttc cccaatttta ggaaaggaaa 360
gaggaactaa aattctatct cagatatgag cctctgaatt tcaaaaaaaaa attgggagaa 420
aatagacaac aacaagacaa aaaataatac actttgacct ttgggcttgg ttagcttttc 480
ctggaaataa gggngctttc tctttgnaat cagatgacaa tgggaanagc tgactgggggt 540
tnggaactgg ttan 554

<210> 10428

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10428

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ccaccctcac cccttgtaaa aaaataaact ctcacgccta tggaccagca aagactggca 180
gagtggctcc tcaacaggga cacaacactt ctctgccagc ccagggaccc cgttctttga 240
ccctcacctc tgccacttct aaggcactgt gactcccttg ggctgggttg gtaccgccag 300
cccaccctcc tacgcccgcc ggccttcca cctctggtcc gcctggggct gggatatggg 360
tcccacgtg cccctgctg gcttctctac ccaactacct ctagcgtcc cccgctccgg 420
cggggtaaag ctcactaagc taatcgcccc tganggcca ctaccgtnt ggccccccag 480
cctggctttt ccgggtcttg acaagcccgg aagccttctt cccttctgca aagactggaa 540
ggggctttct gaaggg 556

<210> 10429

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10429

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ggctttgaat aatttttact cattatatca tttatcatag cataacagcg tacattccaa 60
aaaggaaggc ccaacataaa ctgagaaatt gaatagatac atccataatc cctttctatt 120
ctaattccata cacaaatatt ttatcataat ggtttttagaa gtgaatatta tttctatatt 180
cttttccac actttttact atatatcata gacactttcc taaaattcat aaaatcttca 240
catgtaacaa cagcaagtgc tgtaaggaac agattacaag ctatctaatt ggaagatcat 300
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ctttaaat tctcaataag cccactagtg gtagcattcc atttactctt tatggaaaaa 420
gangtctaac actggcagtt ggcttttggc atatgaattt ctctgaatca aggctgaagt 480
gctttttgca nggaaaaggg cccgatttaa taatttcata gggaaatggg cttagaatc 540
aggnttacca tgggtntggg at 562

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<210> 10430

<211> 559

<212> DNA

<213> Homo sapiens

<400> 10430

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ggccccacat aaataaccag gttgctgagc cagagtggaa gtcagggtg ggcctggcag 180
ccgcctgcac tgcccagaag cactggcacc acaggacac agaaaccact gaggcccaag 240
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gcaggctagg gctctgtatc acagtctgc tgggatcaag tctatTTTTT cagtttcatt 360
aaaaacagct gggggagggg caggcacatg cattaagccc cttccgtagg cagagccatg 420
gatggacaag ccccatgggg gcctttgaag gcanaagccc tggaagcaca aaaacggggc 480
ttggataaag cttctaattg gaagggatg tanagcccaa nttcccaatc cccaaaacca 540

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anccagaanc tncaaagag

559

<210> 10431

<211> 533

<212> DNA

<213> Homo sapiens

<400> 10431

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ctaatttata cattttaatt ggttgcataat attaacatgt actataagat tctttttctaa 60
gaagcattac ataataaatg gatactgtaa aaagatctga ttagttaaaa gtaacaagca 120
ttaacagata gatacatata aaactcagcc tgatcagact ggggtgtgagc ctgtaatggg 180
gcatggggca ccagccttcc caaggggtag cctcaaggag ggaggggaaa gggggggtaa 240
aaagaccaca agaccaataa aaaaaatcag ataattagac acagattaac tgtaaacagt 300
tctctctctc tccagtgaac aaaaaagaata agcttccaat gccaaactcca tatkagaatg 360
acttccaccg ctggcttggt ctgctgccat actcgcgggc tcatgtgggt ggcaggcaga 420
ccccaaggag ccatcacggg caanggtctg agttggatta cgtcagatct gggngngtgg 480
tgtgtgtnaa aaaatatgtg gggngaactg ggnttgaagg ggntttcttt tgg 533
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<210> 10432

<211> 556

<212> DNA

<213> Homo sapiens

<400> 10432

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ttttaagctt gaaaaagcct ttcaaaagat ctaatacaga atttccaaaa accagtacga 120
cttgcaagac attctgtgga aaaaagtttt gtgaccaaac agatttggga actgtcacag 180
gtaatgctat tctccttcca gatttccaca gcaccgggca tattagaagc tctgagaagt 240
tttgccataa agatacactc taacctatgt tttcctttta aggaggaaac tagaaaggag 300
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gtgacacatt gaggtcacac agagtaccac atctgtcaaa ggaaagatca acaggcaatg 360
 tcaaatttta aggagaatgt gactcaagga agttcttgaa ggacaatata tataaaaaatg 420
 taattattca accgtaagca gaattatggt cagtaagccc cttaccaatg ctactacaaa 480
 atggaatgaa ctattatctt aataattctt taaaccccgt tttttaaatg gtaaccccaa 540
 ggggccaaaa cctggn 556

<210> 10433

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10433

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 agtattgcaa cattcaaact tgacttataa caaaagaaac aagattgcaa acaaaaaatgt 180
 ttacgggggtt tccaaacata aataaatgaa atagtgttta ggcagtaggg ctcatgctga 240
 tggctagcag gaagttaaca gagtgtaact tacctggaaa aaatctttta tgtacaaata 300
 acaagcccaa attatggact gcagcaattt aatcatcact gccatttttc ttacttccaa 360
 aataaagcct tgattaaacc attcataccc tatattactc atacctttac ttcagagatt 420
 gaggaactat atacaacaaa ttaatttatt ttcaccatag ggataacata ctgnacctct 480
 ctgccaatgg tacttgaaaa tcttccatgt caaaacaact tgacagtaga tntaaccatt 540
 caataaatat gccatggacn tt 562

<210> 10434

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10434

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 tgtttgaaag catgaatctg cagtctggtt gcctggggtt tgaatcctag ctctataatt 180
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 ttatcaagaa tacttaaaat atgactggtg aggtggtgag gtcaaactct agccctgcct 300
 gagcatgcat atactatact gctcccacct gcccttggac tgccttccat atctaaaatg 360
 nattcattct tcagattcca gctggttgn ctcactgccc ctcaggaacc cctgctttca 420
 acaactaatc aagnggatag actttatggt cctctcttnt agcaatgacc ancttccctg 480
 cnttgaggca tacaagcctt tcctttttaa ncctccggac atacccccca atttgnccct 540
 tccaccttc tanaatangc 560

<210> 10435

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10435

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 aatcaagaac attaggaaaa tttttttgca aaaatgtcaa aaaaaaagat ttgatctggt 180
 cgggtatagt ggctcacacc tgtaatccca gcactttggg aggccaaggc ggggtgatca 240
 cctgaggtca ggagttcaag actagtctag ccaacttggg gaaaccccat ctctacaaaa 300
 aatacaaaaa ttagccaggt atgggtggtg gtgcctgtaa tcccagctac tagggaggct 360
 gagccacgag aatcgcttga acctgtgagg tggaggttgc agtgagcccg agatcgccacc 420
 actgcagccc agcctgggcg acagagtaag actcatctca agagaaaaaa aaaaaggatt 480
 tgatccaacc caganttcng aaaaacaaaa cccaaaaccc tgggactngg tacattatta 540
 aattngggac nccgnnaaaa c 561

<210> 10436

<211> 574

<212> DNA

<213> Homo sapiens

<400> 10436

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agaaaaataa aaaatttcca atatgtatg ctgtgttata cctgcctctg ccatgcagca  120
tcatagcctg tgggaaccag gagggcttcc cttaccaccc agagcagagg aggaaggtga  180
tggaatatgg ggtgagggga ggaacctggt ggccccctccc tgagatggcc agaaagccct  240
tggcctcacc tgggactgac caggcagccc tagtctaggc acaaggtgcc ctttcaccct  300
tcatggctgt gggaatatat cctcttactc tttttctccc atacagctac tgccaaaatg  360
cccaaacttg ggccaaatgt tgcccaaact tgggccaaaa atgttgccca agagaccnaa  420
ancagaggaa aacaggttcc aaatctatgg agatcatgag cngaaatctt gangctttga  480
ataaagggtc taaaagggca ggaactcttt gggngggcca aancanacgc ccattcccaa  540
gggctttcat tggaatgggg ggnaaggctt gttnn                               574

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<210> 10437

<211> 562

<212> DNA

<213> Homo sapiens

<400> 10437

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gaggtatttt agtaacctac tttttatttt tactttttaca aaagcttttg gttggtgaaa   60
aattaagtaa tctagggcatg atttatggga tgcaggagga tgtggatagg ttacatgcaa  120
atgtcctttt ataaaaggaa cacagcatct gtggatttag gtatgcttag ggggtctgga  180
accaatcccc tgcatatggt taggggataa ccatattcaa aagaaacatc ttaaggcttt  240
accatgtgtt tgcattcatg aggcttatct cctatgtgat ttctttcacg tttctgaaat  300
gaaataaaat taatgaatgc ttttccacat ttatagagta tctctccagt gagtcctttt  360
atgtctatgc aaggaactga gagaactcag tgccttccca cattccttac attcatgcat  420

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cttctcttca gtggtgagtt tttcatgtcc tcgaaggaaa ccgagaacca ntggaagctt 480
 tancncattg gtgacattca taagaattcn tttccagggg gaatcnttca tgggtcccaaa 540
 aggcaanggn cccaaaaaaa gc 562

<210> 10438

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10438

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 gatgatggta ttttacaatg aaaacacaag gaaacccttt gaggtccaat tttcacatca 180
 tattctccaa atagtaaaat agcagctcta catgttgatg aaaagaaatt tcaatttctt 240
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 gaaaatttta gttaccaa atttcagaaa tttataaag cattacatat atgtaattag 360
 cacttatcta ccaaaaaaac atatgtgtat gtatttattt atcttacctt cactgaagtt 420
 cttttttctg gctggacatg agaaacagga ttaagtgatc aatgctggct ttatttcttc 480
 ataagcagta atttgggnct ttttcattca acacacgcag catttcataa taaattccca 540
 aaggccattc ct 552

<210> 10439

<211> 538

<212> DNA

<213> Homo sapiens

<400> 10439

aaaaaatgg tattttatta taacttttaa aattgcggaa catcagactg aatatcatca 60
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cagtgagttt tgcctcaggg aattttccag ttcaacccca tacaccaaca tggaataaat 180
 ggaaacacta gccttttggg tttgcccaca gttccaaagt gctattacag gcggaatatc 240
 tgctgcagga ggctattctt gctgctgtgg gtgtgagtaa aatgcttagt tccttctaaa 300
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 ttactcctgg gcccagaagt tgtcacatag gtggcttggg ntacttggtg ctgangcaca 480
 actgggcaca nggcccaact tggtagacaca tcaattcntt naatatgtga tinctanaa 538

<210> 10440

<211> 523

<212> DNA

<213> Homo sapiens

<400> 10440

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 ctgggcatct aggacagggt cttttaacct gtcaagtcag tttcattatg gccaattttc 180
 tagcagtggg tggggatggg gagaggagag ctttgatttt tttgtgtgta gaagaacttt 240
 ccataagcct gtttggctca tggacatatt ttacaatgta acctccctca gtcactcaga 300
 ggggatcaag aagggccccc taaaaccagg aggacagatc tagttgggca gcaaaatctg 360
 gctattttcta gaaatgctcc ctcttcctgc aactgagcag ttgtccccta caagccacta 420
 aagcccccaa tctttacctg ngaacccatn ttctgactct gggaatgcc tgcanaagcc 480
 tggtagggga caanccgtca aaagntgatg aaccntgctn ggg 523

<210> 10441

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10441

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tgaacatgt attattacta ttgggggag agggggactg ttcattttac aggggacaag	120
caagacaggc tcaaggaggg aaaggacagg ctcaaagtca tcacagtgtg gggctggaat	180
gcagttgccc ttccttcttt ctttttgac atcttccgtc tctagggtga ggaggggtgt	240
aggcacaggc acccaagaca gccgcggtcc agccccggcc ccacctgtgg tctcagtac	300
gccccagagg ccccatcttc cccacataat gaggtgtctc catcctcctc aaagcccaga	360
cctatttcat aagccccaga cccaccttc acccagggcc ccaagagaac agagctggag	420
acacttctac tcctagcact ggatgccttc tcccttctgn gaactgtang tgggggggtg	480
gaaggcacc ctttaagcan gtcgggggg ctttgaactc caagactctg gaaaccnnta	540
naaantggga agg	553

<210> 10442

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10442

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tcaagttcct ttaaaagaat actcgcatc ttatttgctt ctgcagcttg ctggtcttta	120
gccttcacaa tggtttcgac acattgatga cattttttca acagttcctt atctgtaatt	180
gttgctatgt atctcatgca ttctatatca gaagggaact gatttacttc ctttaccaaa	240
tattgaacaa cttttacatg acccttgca aatgctgaca taagaggtgt gattttccgg	300
ttatctgctg catccacatc agcacctgct tgcactagca actgcacaac atcaaaatga	360
cctccattgg atgccagcca aagtggcgta tttccctttt tgttacgaac atcaatgtgg	420
gtccccctat gaatcaggga gttcacaaaa attgnagtga ccttggctgg tgctatggtn	480
aaagcaagat ctttgaagga agggccaggg gagcntaaca ttnntcctta tcaagaagac	540
tnttcaacct tgnatccctc ana	563

<210> 10443

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10443

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attaaacaaa tatttattaa ccggcccata aaaataatga agttactcac actgagtcct   60
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agaggctctg agaatgaatg atgggtaagt ttatttggac aaccagaagg acttttcatc  180
acaactgaag ccattttata atgtagaaat ttctttttcc tattttaagt aaggaaagtc  240
cattcttgag aatatgttgt ccaacaatta aaacactctc aggatttggt acttggttgt  300
gatttatgct gactccgcct tctgttatca ttcgataccc tcggggacca tctggaatgg  360
catttgcttt gcggcaagta tctaggacac ttgttccagg atcgagaaaa aattcagaaa  420
atggagcttc tttaaacaac tcttttaact cctgacagac tgaacctccg gggctttaat  480
ctctggggat aaaggcttgg ggacccccct tagcagaatc caatcntttt ggccatgacc  540
agcttggtc                                     549
    
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<210> 10444

<211> 537

<212> DNA

<213> Homo sapiens

<400> 10444

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gtacatcagc atctttacaa tattaaagga gccatataca agtctacagc cattgtacac   60
aggatggtga tggctgggga gccccgcca ccagtcctnt gcagtttctc caccgganaa  120
cacttgggga gctgtcacia ggccaggggg ggtccatntt tgggcctgtc gtggggcagg  180
cagcaggtct gcaaggactc ctcagggccg gtcctcactg gaatcagggg tcaanagcgc  240
caggctctgc tgtgtctggg tctcatcggc aggctagtgt aacaacgtga attaaaactg  300
ggcatattcg catganaaaa ctggagctgg ggatggctcc ctgagctggg gacctagaag  360
    
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acgctgctga cagatgggcc cttcatggt ggggcccatt cctgaggtaa cgtgcaaccc 420
tgaggctggt cccaacggaa ggagactttt ccagcagccc caggggccag tcccacacag 480
acnggaattg gaagcccttg gcaacaagtc angggacccg ggaaggcaac cctgacc 537

<210> 10445

<211> 518

<212> DNA

<213> Homo sapiens

<400> 10445

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acccacagt gtgggcctct ggagctgtgt ctttactctt gctgccgac aatcccatgc 180
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tgtaccggtc caggtagcgc aggggctgcc ggtgggggaa gcgcttctgc ttgggggtgt 300
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ttaggtgac ggagtcaccc cagcggcact ggaagaagga caagccggct ggagtcattg 420
nttcttgng nttcttgnaa aaatcaaaag tgccgaaagg nccctgggcc nacttgatac 480
aaggtgaagg gccgtcgtnc ttaaaagaat caatcggt 518

<210> 10446

<211> 569

<212> DNA

<213> Homo sapiens

<400> 10446

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ttctcactaa aacacagcta atacatgttc cttaaactcat gaaggtaaag tgaaaaaact 120
aaatagtttg atgaccttag agaaatcatt tattctctct tatactcagt taaatgggag 180

cctggttatac acaatagaga tgagtaataa tgaaggtaaa atgcctggta aaatgcatca 240
 cagtaggcac ccatcttatt atacacatgt caataaaaaat aagcatctat tttttaaggg 300
 aagaaaagaa atgcttctta ataaagctct ggatgaacca tttatcttct ttcaaaaaat 360
 gtaaaaacac ataaaaaagc attatctgac aaagaaaagt agaaaagatt tttatcttta 420
 attagagttt gtagtataca cttactttc tgtaatctgc agtgatgaat ctctatgtaa 480
 acattcagaa aaagagcgaa tactgggtca tgacttatga actataaatt ttggcctgga 540
 tactaggcca gnacnggtt atacnttn 569

<210> 10447

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10447

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 aaaaaaagta tttcttaaac ttagttataa aaagaaggat tccataggca cgaggacccc 120
 agtgaacaag ttttggaag tgctgctcca cggtgggccc ataagagtct tgtaaagata 180
 gaaaagtagg ccccaaaaac aaactcttcc ccaccagcca tcagttacta tcttcaaac 240
 tgcagtgtgg gctcaatgtt gtcattctgt actctcctgt cttcagcagg gtttatggta 300
 ttttccact tgctggtaaa atctcctgga agaataccct gcctggaaaa agttcactgg 360
 agtcagaaga tatttgagtg ctagaccct gaattcagta gctagaanan ggggtgccctt 420
 gctgctgtgg gacaggggag aacctggnc catccaggca ctctgattcc tggggnnttct 480
 ggcctcatca tcattctcca tgggtnccaa gggggaccct aaaccaattt cctcccgggt 540
 ttttgagaaa naaacc 557

<210> 10448

<211> 561

<212> DNA

<213> Homo sapiens

<400> 10448

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atatccctgt atatccctcaa aaagcaagtt caggaaattt aaaaatgatt tataaaaggc 420
actgaagtta gcaaaagcat tgggtgggtt tcattttgga ttaaactctg gaaatgttca 480
cagagaaaca actgtgtgag ccagttgccc gtaacaccca ggaagaaccg ncttcaggca 540
gcacctctgg acacttagcn g 561
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<210> 10449

<211> 519

<212> DNA

<213> Homo sapiens

<400> 10449

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atccacccat tcgcacggct gctccaggag ggcttgccac agctgcttct cctcagggtg 180
ggaatccatc cagggcacct gcagcccata gctgctgccg gtgcccaggc tgaggcgtgt 240
gccccccagc tggcggttgg ccagggcccc atggtcccag agggagagct cggcacaagc 300
ctggcgcagg tcagcaggcc caaagccatc gtacaccatg gtgtgattga acacagggt 360
gaggctgcgt cgcacaaccc ttgtacgtg gcggctggcc tggctgtcat cangcagcac 420
gaagcattgt acctaagtgt ccanggatcc tgccgcaacg gcangangtc ccgaacctct 480
ttanccaaaa tgcagnttcc cgtttggggc aanncttgg 519
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<210> 10450

<211> 453

<212> DNA

<213> Homo sapiens

<400> 10450

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tttccagagc acagggtgaa aggctaaagg gctaggactg ggggtgggggg agcaggaggg  180
catggcagct gctggctctg tcctcccagc ctgggtccac cntcctgcc gttctccttg  240
ggctcaaggg acacacattc gttcaaactc gacgggcaaa gccagggcct agcccactct  300
agccgcaggg tcccctccct gagggccctg gtccagcacc tgggtttctg ggctttttct  360
ggctganctg gagggcctag ggccaagccc actctccgga gggctggaaa ccacccttn  420
aggtggncan tggggcncgg ccanaacggg gga                                453

```

<210> 10451

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10451

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atacctttta ttttcgttct gttgaatcta cattatacct cacattctct tcctatatattg   60
atagccttta tatacctctt acaaatcaaa gctataagac tatattaaag aaattatgaa  120
aaactattac aattgttttt tcatatgcaa gatggcacta gcatcttccc cagaaaggga  180
aggaagaaaa ggtctcattg tactttctct tgaattctcc tttaggggag aaaagtagaa  240
ccttacagct gccagcaatg caaatcttcc cattcatgga atctgggaga agaatatgtt  300
ctttataaat tcacatgaga caaagatgcc aaccagatgc actgattgta gaggtattaa  360
ttttattcaa ggtgacaatt aggccttata aacctccctg ataactata aaaatataaa  420
cagtggtagg ttttattttt aagtgggaga agtcttggct aggtggatgg tgagaatcac  480

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aatggaaggt aatattaagt tacccggaat ataagtttgg aacnttgaaa ggactttttt 540
ataggacatt ttaagaaggn 560

<210> 10452

<211> 557

<212> DNA

<213> Homo sapiens

<400> 10452

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aggtagcagg aagaggcagg gtcccacaaa ctcaataatg tccagcaaaa aagagagaga 120
agtccttaaa gacctatgct tcctcactgc aaccatcctc agagcttcct tcctggtgct 180
gaagaggtca aaactgtctc ctctaggggt cagggtcaaaa ctgtccctcc ataggtctcc 240
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gccgcttggt ctccacctga aaacttctgc ctcgggattg acagccatcc ataagaaaag 360
gtttaaaaag gagagacttt tgatagagtc aaataatatg tgtttcgggc cattgacacc 420
atcttctcct nacacgtgat ttggtggcc ttgaggatgc tataccacac catgccttgc 480
aggccggacc ttcttggttg gggcagaaaa gataggcact ggtttcaccc ggntntggat 540
gtaggcncct ccnagga 557

<210> 10453

<211> 549

<212> DNA

<213> Homo sapiens

<400> 10453

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ccagagaaaa ggagtaagtg ctccaaagtt aaaagttaaa gtcccaccag gcatgngngc 120
tcaatgtag tttttatcct taaaattgcc tgagttctta gaacacagaa aaaacaaatt 180

tgaatgcatt tctaacagct taataattta tatgtcccat tatgatttta gcggaatggt 240
 ttaaagcaaa gcataattca ctgcaaagat aaacctgaaa aagcaaacaa acttacaaat 300
 ggtatgttat gacctagaca aaactgatta tcaactagta atactcataa ttagcacatg 360
 caacagattg agaaattaaa tcctgngcta tataactctta agtattttgt cagatatatc 420
 tttaaatggt ctatcaattg cattcctttc cacacatatt ttaaacagga aaacaatggc 480
 tttcctccan atctcaagg t ttcaggcaa aacgtgcaat ctcgtaaaaa tgggtatttc 540
 catggtntt 549

<210> 10454

<211> 491

<212> DNA

<213> Homo sapiens

<400> 10454

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 ccttctatgt acatctgtcc tagtgctttt gagggttaat ctaaactcat acatcaacaa 120
 acattctagc cggacaagta ggtggctact cagtccatta agaaacttaa ttactagttt 180
 ctagtagcct taaagtctca tttaacattt aacaaatcaa agagcatgtc agaggctgga 240
 catcaatggc agatgatgcc aaagtcatag ggttttgcct ttgtgtacag tgcataaggct 300
 ccaaagcatg acctgcacgt cttgatactc aggaattttt ggaaaaagaa aatcacactc 360
 tttggccact tttaaaaagt gaaaaggtag agccttcatt accctagtag agcttaacct 420
 aatncantnc aatgaaccaa ncnggaagaa nggcatnttt acaaaccctt ttcaaaagtc 480
 attggccagc t 491

<210> 10455

<211> 558

<212> DNA

<213> Homo sapiens

<400> 10455

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agataaaatt aaactgactt tattaacag agtcacttca ggcctttttc ttatgaacag 60
agtgatcctt agtcgggtaa catgtcaatg acagtgcact ctgtgcctct cctgcattgt 120
ggggagggca cttcttaagg caaagtaaaa ttcaggacct gcatgaaatc agttttgctt 180
ccatttgagt tcgatttatg ctattaatag ttctgatcac caaatttata acatttaaag 240
tactgtctgt taccgatgt ctggtatgtt tacataaaac gtggttctgc ccagtaacag 300
cattaagggt aaaaatggg atttccccta aaattattac catcatgtca tcctagagt 360
gtaccacact gggagaggtc caaaaaacaa agcattagat ttcaggctaa gaacagccag 420
ttttaggagt aagaattaca tcgaatagcc ttaagagcct ttaaaaaggt caaggcttct 480
taaacttcag aaatgaaacc aaaccaaacc aaaccaccnc caaaaccaac ctacccaacc 540
ccaaaacttt tggngcca 558

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<210> 10456

<211> 484

<212> DNA

<213> Homo sapiens

<400> 10456

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caagcaaaaa attattcttt taatacagct tttaacaaaa cagttttaat acatgagtgg 60
ctacaatttt attgtgtaca caatgtgctt atagtcacat gtggcccaat ggatccaaat 120
gcctcctctg gctcatgaaa tcccatgtac ttcacaatct agcctaatacg tgtatatgca 180
taaaagccac tgggtatactt ttacagaca tctttgtata atagtccaga aaaaaaaatc 240
agtgtactt aagaatgttt agacaatttg acatctacgt ttgctttctt ttcttttcag 300
tagtccttct gatgattggg ggcctttatc ccataggttt atactgttaa aacagtacat 360
aaaattacat ttagctttgc ctagagtaat agataaaaaa gggtaaatca cacattttca 420
agaagcttga gaggnaaaaa attgcagcat cgnggnttta aaaaactnnt taagcnngaa 480
aatc 484

```

<210> 10457

<211> 552

<212> DNA

<213> Homo sapiens

<400> 10457

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gagcattcca aatttattcc cttaaagtaa acctatagcc actacatatg tccctgacaa 60
ttagaacaga aaacaaaaaa aggacaaata gaaatacttt ccattctgtc tatatagtag 120
tagttttggg ggtatagata gtaaacta gtcaagaata ctcgtctaaa tatgttggt 180
aaatgtagtc atcatttggc atgtgttttg ctttggtata taatgaagtt gagctatccc 240
atctttcttc tctatggaat atagtcacac aaacaaaaaa gatgaatctc actagagggt 300
ggtctttatc agaaatatgc cccaatctag ttaggtaata gaaagaaaat cttttctcc 360
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ttctataatt catgtagata tatcaattta tacatcatga ttagacaga cagcaaggct 480
atctttctgg ctccatgatg ctaggcttgg ccacatgact tgcttaaagc accgtatgga 540
tacatgcac tt 552
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<210> 10458

<211> 544

<212> DNA

<213> Homo sapiens

<400> 10458

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ggtatattca tacaatggaa ttttattcag ccatagaaag gaatgaaatt ctgacacatg 60
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tcttgggctc tcaatgcaat agaaactgac atggggccaa aagacttccc agacaaagca 180
cgcgagggt agaggatata ggtagcatc atctggttgt gatgatcatc tcgagtaatg 240
ggccacctgg tggctctggcc agcggcaaca aggctgtaaa tcaattaatt attcagcatt 300
ccctccaag atgggacact ctgcaatctt ggttccttat ttgatctcc taaggccagt 360
tcctggaatt gtttaagtaa aagacatggt taagcattat gagagcacag aagaacaata 420
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cagaaaggcc atcttctttg gatgactaaa gccctnagg tagcangtat ngnggcaatg 480
aagnaatant attgggggtt gggatcagt ggaatgcntg aaaaaagct ctaatggggg 540
tgaa 544

<210> 10459

<211> 135

<212> DNA

<213> Homo sapiens

<400> 10459

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tgcgatgcca cagaagagcc tccccgttc cctccaccat gtcccccttg ttgggggggg 120
ggaagggggn nnnnn 135

<210> 10460

<211> 563

<212> DNA

<213> Homo sapiens

<400> 10460

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tcctcttctt cctcatcttc attctttagg aaaatcccca cattcttcac tttcttcttc 120
acagaagtga gaacagtagc tgggccatcc tcatccacaa gcactgtgtc accaatgaac 180
agggcatagg ttttctcttc tggctttttc cctccttgt tagtcaggtc tgagaatcct 240
aaattgatgc tgaaaacat tcctttcttc agtttgtatt gatttttgct attgattact 300
agggagcctt cacggaattc aattcccac ccaaacccta ggtttttggg aattttgntc 360
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tcttcacacc atgncttaat tccttcagaa gttcctcttg aagctgggag caaaaggtat 480
aatttcttga acttcttgag aagggtcaacc ntcaaaggcg acaaggttgg agccanaana 540

ctgaagcgaa accntggnca agg

563

<210> 10461

<211> 553

<212> DNA

<213> Homo sapiens

<400> 10461

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tacaggtgcg caccaccacg cccagctaata tttgtatatt ttagtagaga cagggtttca	180
ccgtggtctc aaactcttga cctcgtgac cgcctgtctc agcctcccaa agtgctgggg	240
ttacaggtgt aagccactgc gccagccag taattcttat caaatgaaaa atgatcttca	300
ttcacaatga ctgaccaaac ttctgagttt ccttcagtta attcaaata ctgagggtcaa	360
aatcaccaat gacttttgct ctttggcttt caaagtggga catatcatca aatggcccat	420
atacncaaaa tttacattat agacaaatnc atatttgnca tatgttngaa gcctnattcg	480
tgatttatag gatttaaaca ncntaggctt ttcttaaaag ggatctgaag tcaatagggt	540
nactccacct tgc	553

<210> 10462

<211> 566

<212> DNA

<213> Homo sapiens

<400> 10462

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caacaacctc tgcctcctgg attcaagcaa ttctcctgcc tcagcctccc gagtagctgg	120
gattgcaggc atgtgccacc acgcctggct aatttttttg tatttatagt agatatggtg	180
ttcaccata ttggccaggc tggctcaaa ctctgacct tgtgatccac ctgcctcaac	240

ctcccaaagt gctaggatta caggtgtgag ccaactgcgcc cagccaatta catTTTTaat 300
aaccgaata ttacagatca tttccacgtg tccttgcacc ctttatacac atcatatcat 360
taggttcaac atattttgac ttgttggcct tggcacacac aatccatttg tgtggtttca 420
ccaaagatga atgtttcgat gtctagtgat ttggttaaggt ctcgatcaag cctgggccac 480
atatagtacc atttaaanga ttcttctaan atagactttc ggatgtgata ctggttnaac 540
tatgataaag ttggccaact aattgt 566

<210> 10463

<211> 560

<212> DNA

<213> Homo sapiens

<400> 10463

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tatggtaaag agtaaaaaata atataaaaaa cacagcagtt atagctgtcc aaatgaaagc 180
ctatctgcaa aaaggcagga caaggtgggc tgactgagca aatattcaca tcacgacctt 240
agtaataaat ttcaaatggt ttcagttccc aagatctgaa aagagaatca tcttgcacgc 300
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gcctctgtat cctggaccag ccatgggtga tttagaagat tcagacgcag ctcatgagcc 420
aaataaaaac agggcattct tttacatccc cttagagaaat ccagatnaaa cccaccatgg 480
nctttccgaa aacccaaagg ctggaactgg catggcctaa tntgagaaaa tcatnttggc 540
atcangcttt atgacctcan 560

<210> 10464

<211> 30

<212> RNA

<223> Description of Artificial Sequence: an artificially synthesized ol

igo-cap linker sequence

<400> 1

agcaucgagu cggccuuguu ggccuacugg

30

<210> 10465

<211> 42

<212> DNA

<223> Description of Artificial Sequence: an artificially synthesized ol
igo(dT) primer sequence

<400> 2

gcggctgaag acggcctatg tggccttttt tttttttttt tt

42

<210> 10466

<211> 21

<212> DNA

<223> Description of Artificial Sequence: an artificially synthesized pr
imer sequence

<400> 3

agcatcgagt cggccttggt g

21

<210> 10467

<211> 21

<212> DNA

<223> Description of Artificial Sequence: an artificially synthesized pr
imer sequence

<400> 4

gcggctgaag acggcctatg t

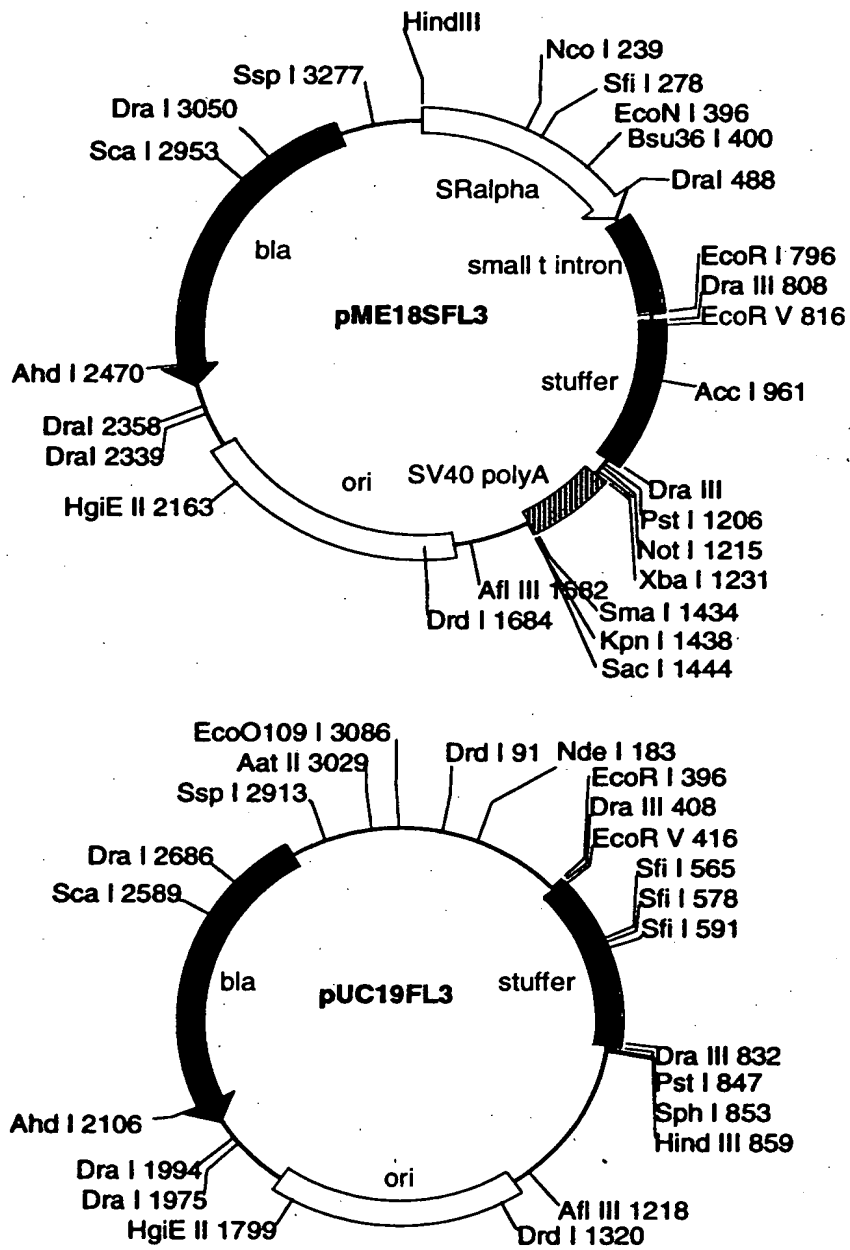
21

【図面の簡単な説明】

【図 1】 pME18SFL3とpUC19FL3のベクターのマップ

【書類名】 図面

【図 1】



【書類名】 要約書

【要約】

【課題】 全長cDNAを合成することができるプライマーとその用途の提供。

【解決手段】 ヒトのタンパク質をコードする5547のcDNAを単離した。そしてこのcDNAの5'側、および3'側の塩基配列を明らかにした。得られた塩基配列に基づいて、全長cDNA合成用プライマーを提供するとともに、cDNAによってコードされるタンパク質の機能を明らかにした。本発明のcDNAは全長であるため、翻訳開始点を含み、タンパク質の機能解析において有用な情報を与える。

【選択図】 なし

出 願 人 履 歴 情 報

識別番号 [597059742]

1. 変更年月日 1997年 4月28日
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